E87026-00
E88064-00

BETCO®

STEALTH™ ASD26BT

26" Automatic Scrubber with Traction Drive

Operator and Parts Manual

1001 Brown Avenue • Toledo, Ohio 43607-0127
Customer Service: 888-GO-BETCO • Fax: 800-445-5056 • Technical Service: 877-856-5954 • www.betco.com

RECEIVING THE MACHINE

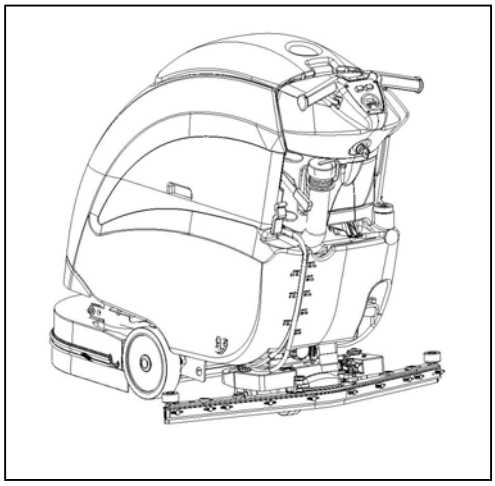
Immediately check, when receiving the machine, that all the materials indicated on delivery documents have been received and also that the machine has not been damaged in transit. If it has been damaged, this damage must be immediately reported to the shipper and also to our customer's service department. Only acting promptly in this manner will make it possible to receive missing material and to be compensated for damage.

INTRODUCTION

This is an automatic scrubber which, via the mechanical action of the rotating brush and the chemical action of a water/detergent solution, can clean any type of flooring. As it advances, it also collects the dirt removed and the detergent solution not absorbed by the floor.

The machine must be used only for this purpose. Even the best machines will only work well if used correctly and kept in good working order. We therefore suggest you read this instruction booklet carefully and re-read it whenever difficulties arise while using the machine. If necessary, remember that our assistance and customer service (organized in collaboration with our dealers) is always available for advice or direct intervention.

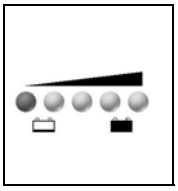
SERIAL # PLATE



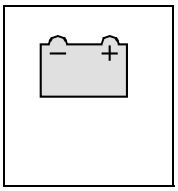
TECHNICAL DESCRIPTION	**UM**	
Rated power	HP (W)	1.7 (1260)
Working width	In (mm)	26.0 (660)
Rear squeegee width	In (mm)	37.3 (948)
Work capacity	ft^2/h (m^2/h)	31,970 (2970)
Water consumption	g/ft^2	
Brush & Pad (diameter)	∅ in (mm)	14.0 (355)
Brush RPM	RPM	225
Brush pressure	lb (Kg)	99.2 (45)
Brush motor	V / HP (V / W)	24 / 0.75 (24 / 560)
Drive Type		Automatic
Traction motor	V / HP (V / W)	24 / 0.20 (24 / 150)
Forward movement speed	mph (km/h)	0-1.9 (0-3)
Maximum grade		10%
Vacuum motor	V / HP (V / W)	36 / 0.74 (36 / 550)
Vacuum motor suction	inches of water (mbar)	22.1 (55)
Solution tank capacity	Gal (l)	14.5 (55)
Recovery tank capacity	Gal (l)	15.9 (60)
Weight of machine (excluding batteries)	lb (Kg)	253.5 (115)
Batteries	V / Ah	12 / 155 (2)
Charger	V / A	24 / 12
Battery compartment dimensions (Length / Height / Width)	in x in x in (mm/mm/mm)	13.8 x 12.0 x 14.2 (350 / 305 / 360)
Machine dimensions (Length / Height / Width)	in x in x in (mm/mm/mm)	54.3 x 41.5 x 26.8 (1380 / 1053 / 680)
Noise level	dBA	58
Vibration level	ft/s^2 (m/s^2)	5.9 (1.79)

SYMBOLS USED ON THE MACHINE

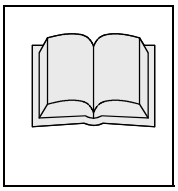
Solution valve symbol
Used to indicate the water regulation switch



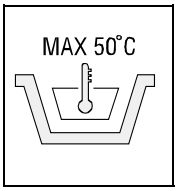
Battery charge gauge



Battery symbol



Open book symbol
Used to tell the operator to read the manual before using the machine



Maximum solution temperature
Located near the solution tank inlet

GENERAL SAFETY REGULATIONS

The regulations below must be carefully followed in order to avoid harm to the operator and damage to the machine.

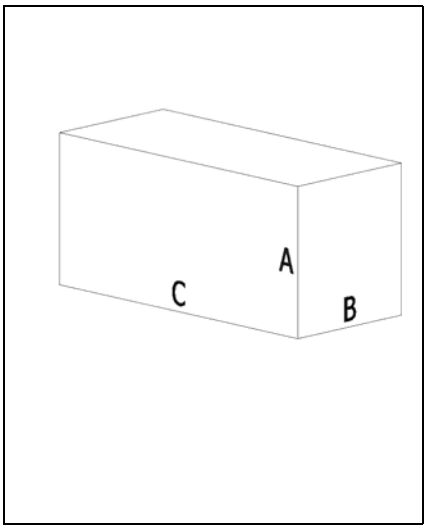
- ❒ Read all labels on the machine carefully. Do not cover them for any reason and replace them immediately if they become damaged.
- ❒ The machine must be used exclusively by authorized and trained personnel.
- ❒ When operating the machine be careful of other people and of children in particular.
- ❒ The machine is not suitable for cleaning carpets.
- ❒ The power cable outlet must be provided with a proper ground.
- ❒ Avoid damaging the power cable or the battery charger by crushing, bending or stressing it.
- ❒ Whenever the power cable of the battery charger is damaged, immediately contact a BETCO service center.
- ❒ Do not mix different types of detergent as this may produce harmful gases.
- ❒ Do not set containers of liquid on the machine.
- ❒ Machine storage temperature is between -10°F and 130°F, never store outside under humid conditions.
- ❒ Operating conditions: room temperature between 32°F and 100°F with relative humidity between 30% to 95%.
- ❒ Only use the machine in closed areas and do not expose it directly to rain.
- ❒ Never use the machine in an explosive environment.
- ❒ Do not use the machine as a means of transport.
- ❒ Never use acid chemicals which could damage the machine.
- ❒ Avoid running the brushes with the machine stopped: this could damage the floor.
- ❒ Never vacuum up flammable liquids.
- ❒ Never use the machine to gather dangerous powders.
- ❒ Use a powder fire extinguisher in case of fire. Do not use water.
- ❒ Do not hit against shelving or scaffolding when there is a chance of falling objects. The operator must always be equipped with the appropriate safety device (gloves, shoes, helmet, glasses, etc.)
- ❒ Do not use the machine on surfaces with an inclination greater than the one shown on the plate.
- ❒ The machine is designed to wash and dry floors simultaneously. Different operations should only be carried out in areas where passage of unauthorised people is prohibited. Signal the presence of wet floors with suitable signs.
- ❒ If the machine does not work properly, check this is not caused by failure to carry out routine maintenance. Otherwise, request the intervention of the BETCO technical assistance center.
- ❒ When replacing parts ask for ORIGINAL spare parts from your Authorized BETCO Dealer and/or Retailer.
- ❒ Always switch off the machine and disconnect the battery connector whenever maintenance is performed.
- ❒ Never remove guards that require tools for removal.
- ❒ **Never wash the machine with direct or pressurized jets of water or with corrosive substances.**
- ❒ Have your BETCO service center check the machine once a year.
- ❒ To prevent the formation of scale in the solution tank filter, do not fill the tank with detergent solution hours before using the machine.
- ❒ Before using the machine make sure that all doors and covers are positioned as shown in this operating and maintenance manual.
- ❒ Dispose of consumables in accordance with existing laws and codes.
- ❒ When your BETCO machine is ready to be retired its entire component materials must be disposed of properly. They contain oils and electronic components. The machine itself was built using totally recyclable materials.
- ❒ Use only brushes furnished with the machine or those specified in the user's manual (page 19). Use of other brushes can compromise safety.
- ❒ When removing the battery, unplug the battery connection, unplug the charger and disconnect the battery terminals.
- ❒ Before recycling the machine, remove the battery.
- ❒ The battery and the battery charger must be disposed of in accordance with existing laws and codes.
- ❒ The machine is not intended for use by children and people with reduced physical, sensorial or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the machine by a person responsible for their safety.
- ❒ Children must be supervised to ensure that they do not play with the machine.

MACHINE PREPARATION

1. HANDLING THE PACKED MACHINE

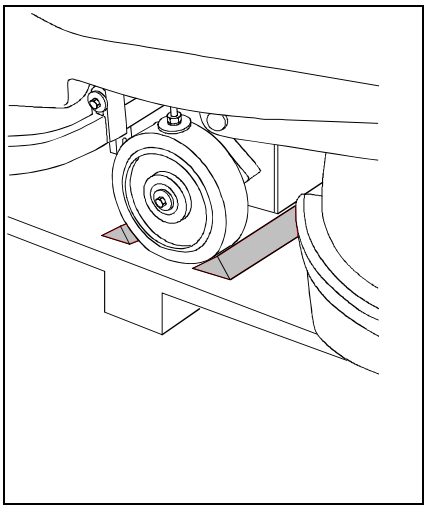
The machine is contained in specific packaging.
It is not possible to place more than two packages on top of each other.
The total weight is 220 lb (100kg)
The overall dimensions of the package are:

A : 49.6 in (1260mm)
B : 28.4 in (720mm)
C : 65.4 in (1660mm)

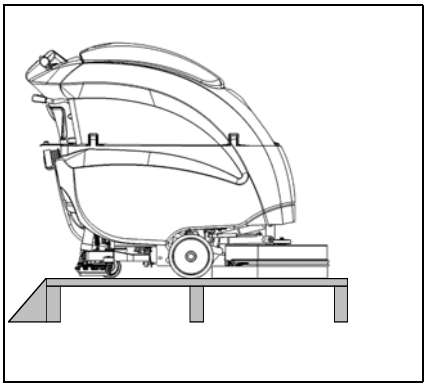


2. UNPACKING THE MACHINE

41 Remove the outer packaging
51 The machine is fixed to the pallet with wedges which block the wheels
61 Remove these wedges



71 Use a ramp to get the machine down from the pallet, pushing it backwards. Avoid violent blows to the base
81 Keep the pallet for any future transport needs



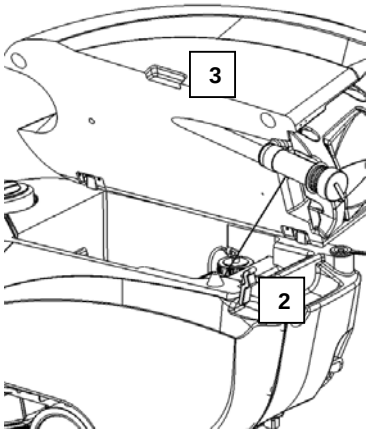
3. BATTERY INSTALLATION

The machine will be supplied with a battery charger and either two 12V Wet or AGM batteries.
The batteries must be housed in the battery tray in the battery compartment beneath the recovery tank.
To insert the batteries you must:

1. Lower the squeegee and base
2. Open the rear hinge that secures the tank
3. Rotate the recovery tank as far as it will go, using the side handle

WARNING: To avoid acid spillage you can use sealed batteries.

WARNING: Perform one battery charging cycle before using the machine.



4. TYPE OF BATTERY

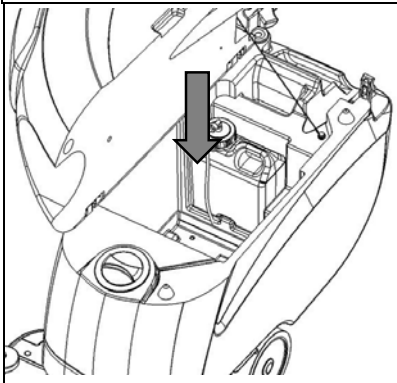
To power the machine you can use:

- Wet batteries
- AGM batteries
- Gel batteries

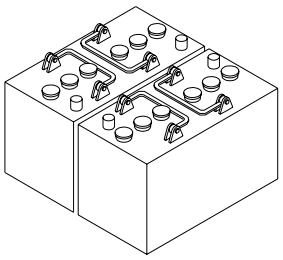
OTHER TYPES MUST NOT BE USED.

The maximum dimensions and weight are:
Width 6.8 in (172mm)
Length 14.2 in (360mm)
Height 11.2 in (285mm)
Weight 97 lb (44kg)

WARNING: Your charger must be set according to the type of battery you install. Call BETCO customer service to ensure correct charger setting after replacement batteries are installed.



The batteries must be handled using lifting and transportation means suitable for the weight and dimensions.
They must be lifted by the handles on the upper part.
They must be connected together in series, to obtain an overall voltage of 24V on the lugs.
The electrical connection operations must be carried out by certified trained personnel.



5. BATTERY MAINTENANCE

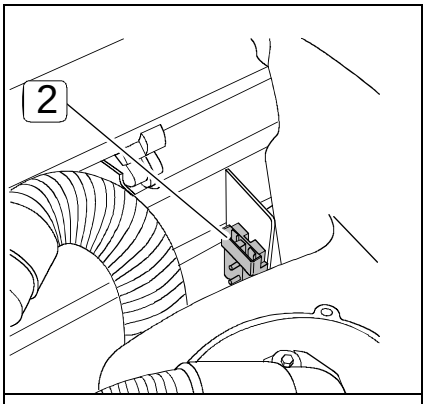
For maintenance and recharging, follow the instructions provided by the battery manufacturer.

6. BATTERY DISPOSAL

When the battery reaches the end of its working life, it must be disconnected by certified professional, then lifted (using the handles and suitable lifting device) to remove it from the battery compartment.
DEAD BATTERIES ARE CLASSIFIED AS HAZARDOUS WASTE AND MUST BE DISPOSED OF AT AUTHORISED BATTERY DISPOSAL COMPANY.

7. CONNECTING THE BATTERY CHARGER

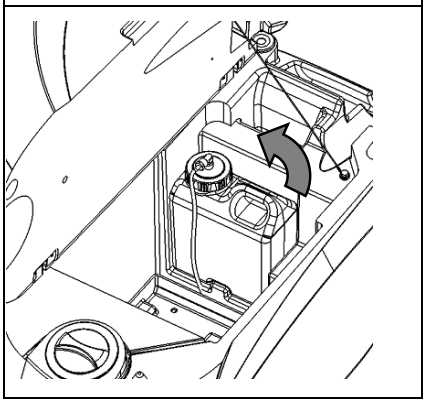
Beneath the recovery tank there is the battery connector (2), the battery charger connector must be plugged into. Disconnect the battery plug and plug the charger into the machine plug.



WARNING: This process must be carried out by qualified personnel. The incorrect or faulty connection of the cables to the connector can seriously harm people and damage objects.

8. BATTERY CHARGING

Perform one complete battery charge cycle before using the machine.
Avoid totally discharging the battery! This can cause permanent damage to it.
Recharge as soon as the battery discharge light starts to flash.



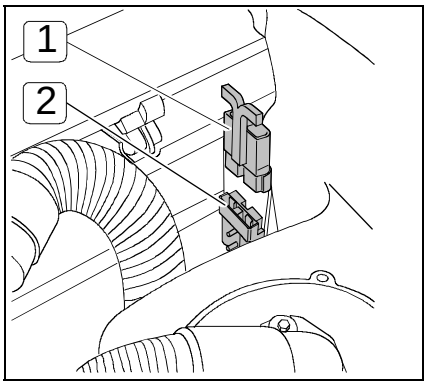
WARNING: Never leave the batteries completely discharged, not even if the machine is not being used. This can cause permanent damage to them. While recharging, keep the recovery tank raised, supporting it with the prop as shown in the figure. Ensure the battery charger is suitable for the batteries installed, in terms of capacity and type.

Danger of exhalation of gas and leakage of corrosive liquids.

Danger of fire: do not go near with open flames.

9. CONNECTING THE BATTERY CONNECTOR

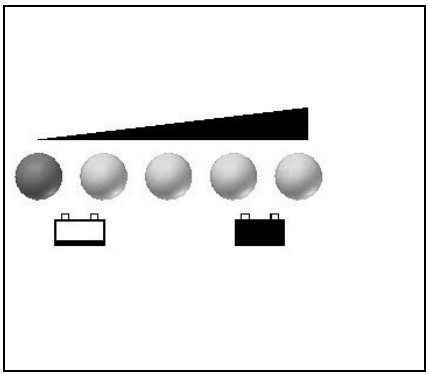
The battery connector (2) must be connected to the machine connector (1)



10. BATTERY CHARGE INDICATOR

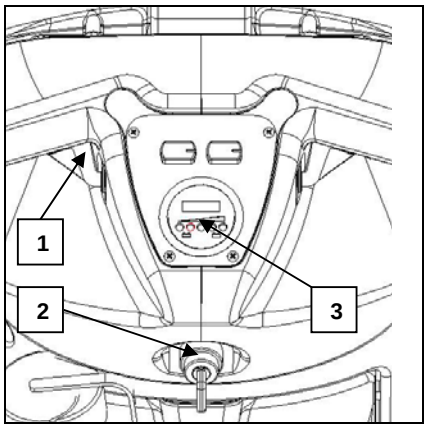
The battery indicator uses LEDs and has 8 positions (7 yellow - charged batteries, and 1 red - run down batteries).

WARNING: a few seconds after the red indicator light comes on, the brush motor switches off automatically. With the remaining charge it is possible to complete the drying process before recharging.



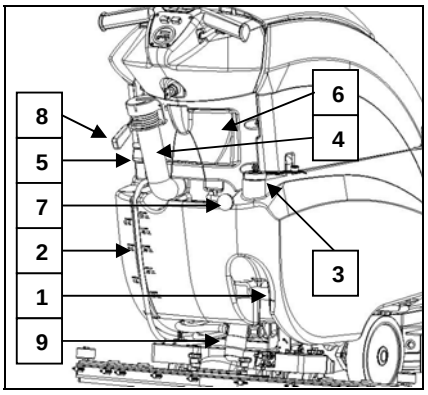
11. INSTRUMENT PANEL COMPONENTS

The instrument panel components are identified as follows:
1- Paddles to activate brushes / traction (located beneath the grip)
2- ON/OFF key switch
3- Battery level / hour-counter display



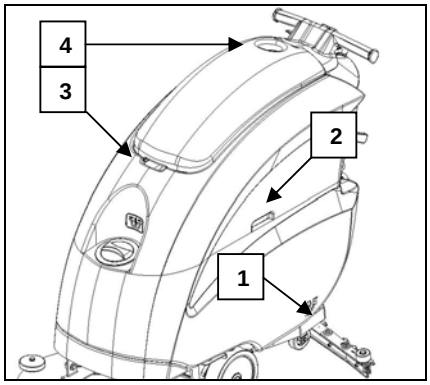
12. REAR COMPONENTS

The rear components are identified as follows:
1- Pedal to raise the brushes
2- Water level tube
3- Solution tank water inlet cap
4- Drainage tube with recovery tank cap
5- Hinge to close the tanks
6- Compartment for storage
7- Lever to raise the squeegee
8- Brake lever
9- Solution filter



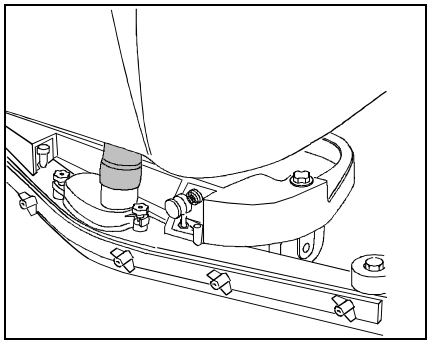
13. SIDE COMPONENTS

The side components are identified as follows:
1- Lever for manual regulation of clean water outlet
2- Handle to raise the recovery tank
3- Handle to raise the suction unit
4- Upper storage compartment



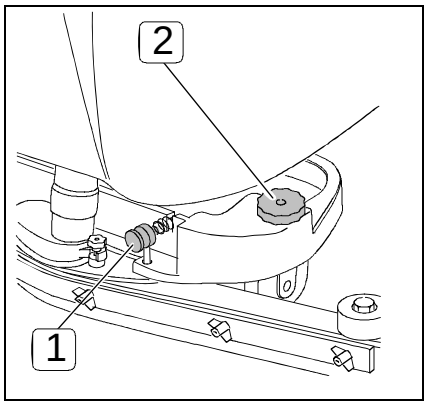
14. ASSEMBLING THE SQUEEGEE

For packaging reasons, the squeegee is supplied disassembled from the machine, and must be assembled as shown in the figure, inserting the small column of the squeegee into the coupling mechanism until the lever is triggered.
Insert the squeegee tube in the appropriate sleeve, ensuring that the tube lies to the right of the lifting cable.



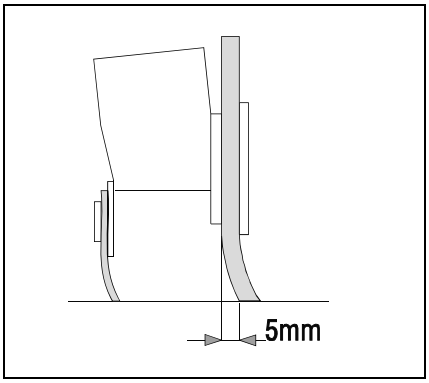
15. ADJUSTING THE SQUEEGEE HEIGHT

The height of the squeegee must be adjusted based on wear and tear of the squeegee. To do this, turn the knob (2) counter clockwise to raise the squeegee, and clockwise to lower it.
Note: the right and left wheels must be adjusted to the same level, so the squeegee can work parallel to the floor.



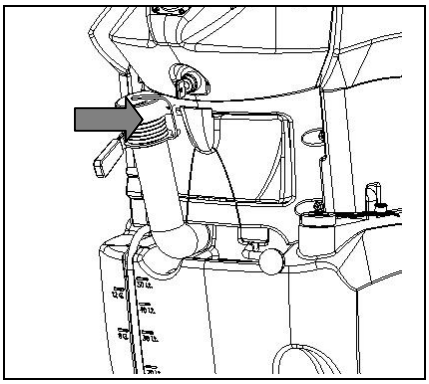
16. ADJUSTING THE SQUEEGEE INCLINATION

During working operation, the rear squeegee is slightly tilted backwards (by about 0.2 in (5mm)) uniformly over its whole length. If it's necessary to increase the bend of the squeegee in the center, you must tilt the squeegee backwards, rotating the adjuster (1) counter clockwise. To increase the bend of the squeegee at the sides of the squeegee, rotate the adjuster clockwise. When fully adjusted, tighten the jam nut.



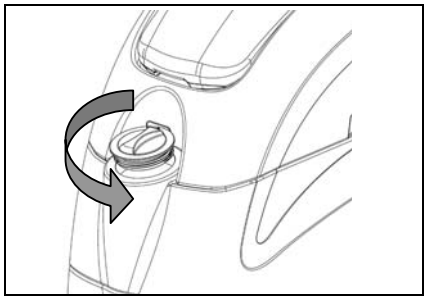
17. RECOVERY TANK

Check the drain hose cap (on the rear of the machine) to ensure it's closed.



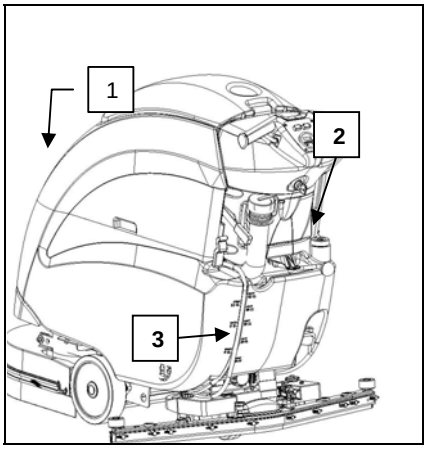
18. SOLUTION TANK

Remove the front inlet cap and check the solution filter is correctly fitted.
Check the filter cover (beneath the tank) is correctly closed.



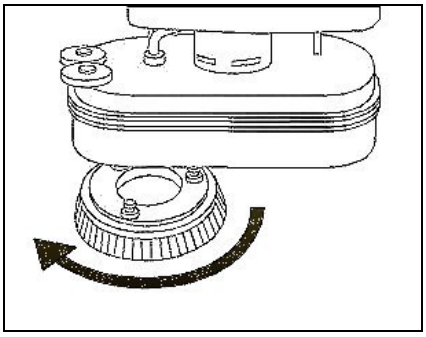
19. SOLUTION TANK

Fill the tank with clean water in the front fill location (1) or at the rear fill location (2) at a temperature not exceeding 120°F (50°C).
You can check the level of solution in the tank by means of the rear hose (3).
Add the liquid detergent into the tank, in the concentration and manner specified by the manufacturer. The formation of excess foam could damage the vacuum motor, so be sure to use only the correct amount of detergent.



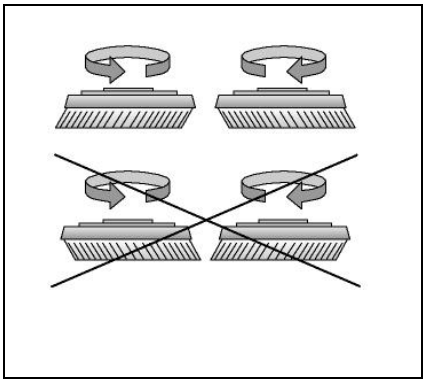
WARNING: Always use low-foam detergent. Introduce a small amount of anti-foam detergent in the recovery tank before starting to work to prevent foam from being generated.
WARNING: Never use pure acids.

20. ASSEMBLING THE BRUSH (BASE WITH DOUBLE BRUSH)



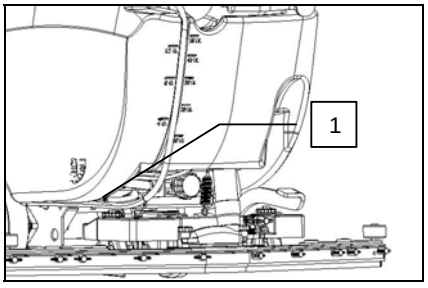
4. With the brush deck up, insert the brushes in the brush housing beneath the deck base, turning them until the three pins enter the notches in the plate itself; turn the brush until the pin is pushed towards the coupling spring and is locked into place. The figure shows the brush rotation direction for the right-hand brush; the left-hand brush rotates in the opposite direction.

WARNING: Make sure there are no objects or people in the vicinity of the brush when doing this operation



5. Swap the right and left-hand brushes every day. If the brushes are used and have deformed bristles, it is better to reassemble them in the same position (the right-hand one on the right, and the left-hand one on the left), to prevent the deformed bristles overloading the brush motor as well as excessive vibration.

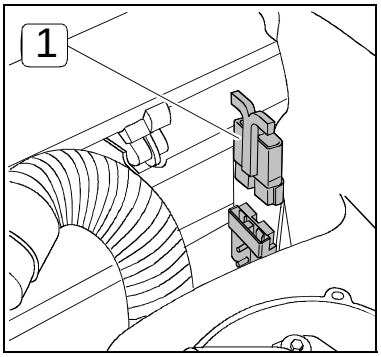
21. REGULATING THE SOLUTION



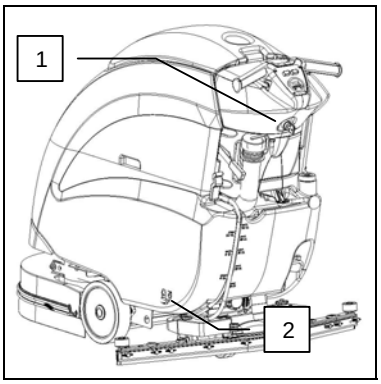
Regulate the quantity of water by means of the side valve (1).

OPERATION

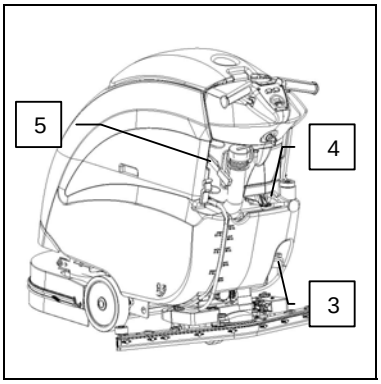
1. PREPARING TO WORK



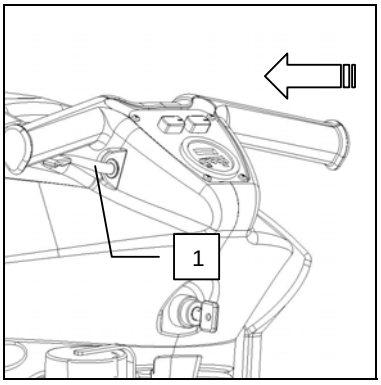
41 Connect the battery plug (1) to the machine plug



51 Turn the key (1) of the main switch to the "ON" position (clockwise). The battery charge level indicator lights will immediately come on.
61 Turn on the water valve (2) (the water falls automatically while the brushes are turning).

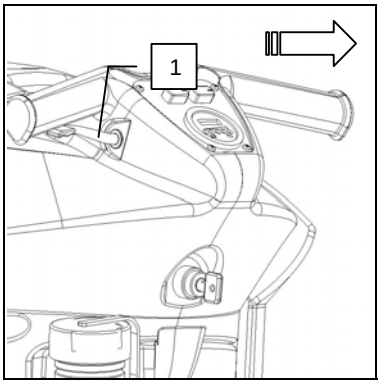


71 Release the lever (3) and lower the scrubbing head. If the floor is particularly dirty, you can apply an overpressure to the scrubbing head by raising the pedal (3) until the lock down is triggered.
81 Lower the squeegee, turning the lever (4) counter clockwise. The vacuum motor will switch on.
91 Check that the brake (5) is off.



:1 Pressing the paddles (1), activates the brushes and the machine begins to move (model with traction). During the first feet, check the amount of solution is correct, and that the squeegee dries the floor perfectly.
;1 The machine will now start to scrub and dry until the solution tank is empty or recovery tank is full.

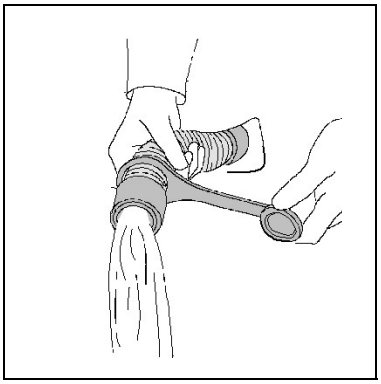
2. REVERSE MOVEMENTS (MODELS WITH TRACTION)



To activate the reverse direction, just push the command levers (1) counter clockwise.

WARNING: when making even brief reverse movements, check the squeegee and base are raised.

4. OVERFLOW DEVICE



The machine has a float in the filter basket that trips when the recovery tank is full to stop airflow into the vacuum hose.
At this point you must empty the recovery tank by removing the cap of the rear drainage hose.

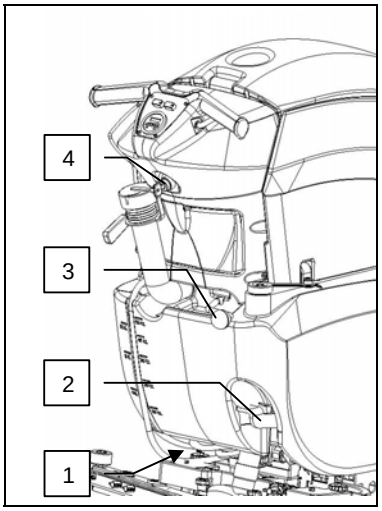
WARNING: Always wear gloves when doing this operation to protect you from contact with hazardous chemicals.

SHUTTING DOWN THE MACHINE

1. AT THE END

At the end of the work, and before carrying out any type of maintenance:

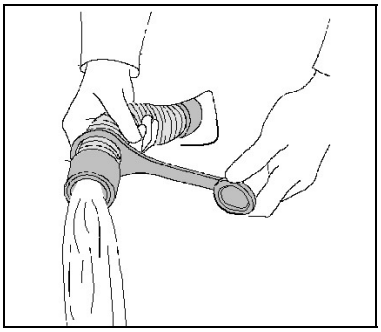
1. Turn off the valve using its handle (1)
2. Raise the brush deck using the pedal (2)
3. Raise the squeegee using the lever (3)
4. Turn off the key switch (4)
5. Move the machine where the tanks can be drained



91 Remove the drainage hose from its compartment, unscrew the drainage cap and empty the recovery tank.

:1 The squeegee must be raised when the machine is not operating, in order to avoid deforming the squeegee blade blades.

;1 Disassemble the pads and clean them with water (to disassemble the pads, see “DISASSEMBLING THE PAD” below).



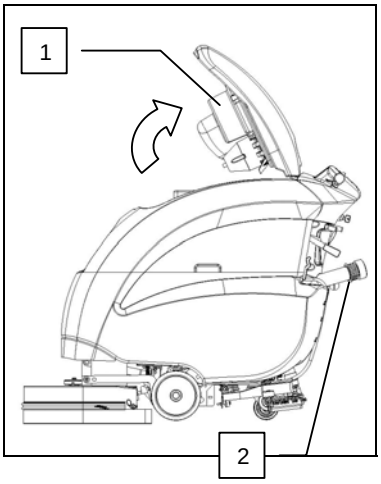
WARNING: Always wear gloves when doing this operation to protect you from contact with hazardous chemicals.

DAILY MAINTENANCE

1. CLEANING THE RECOVERY TANK

1. Raise the vacuum cover (1) and prop it open using the lifting rod on the right-hand side of the lid.
2. Remove the drainage hose (2) from its fitting and empty the tank.
3. Rinse the inside of the tank well with water.
4. Reposition the cover on the machine and replace the drainage hose cap and drainage hose.

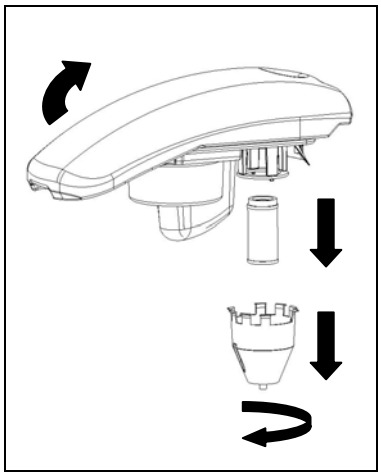
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



2. CLEANING THE VACUUM FILTER

41 Raise the cover.
51 Remove the vacuum filter cover by rotating it clockwise.
61 Pull the filter straight away from the lid to remove it.
71 Use water to clean the walls and base of the filter.
81 Carry out the cleaning operations carefully.
91 Reassemble all the elements.

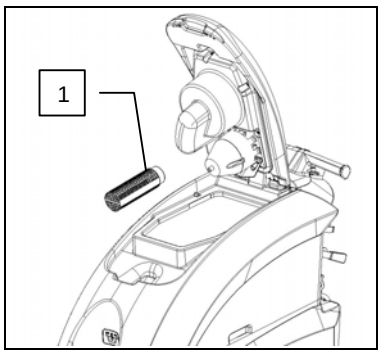
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



3. CLEANING THE VACUUM HOSE FILTER

41 Raise the vacuum cover.
51 Rotate the inner filter (1) and remove it.
61 Use water to clean the walls and base of the filter.
71 Carry out the cleaning operations carefully.
81 Reassemble all the elements.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



4. CLEANING THE SQUEEGEE

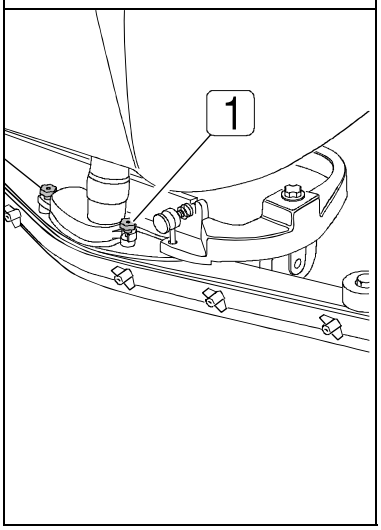
Ensure the squeegee is always clean, for better drying results.

To clean it you must:

41 Remove the squeegee hose from the nozzle
51 Remove the cotter pins that fix the pins of the squeegee
61 Disassemble the squeegee from its support
71 Loosen the wing nuts by two turns (1)
81 Remove the squeegee band clamp and squeegee blade
91 Replace the squeegee blades

To reassemble the squeegee, repeat the above-mentioned operations in the reverse order.

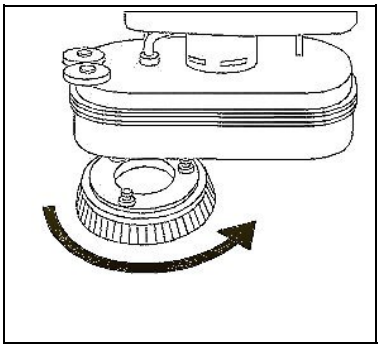
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



5. DISASSEMBLING THE PADS

41 Turn the key to the “off” position
51 Raise the brush deck using the lever
61 Rotate the brush until it comes out of the brush-holder as shown in the figure. The figure shows the rotation direction to release the right-hand brush; for the left-hand one, rotate in the opposite direction

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



8. REPLACING THE SQUEEGEE BLADES

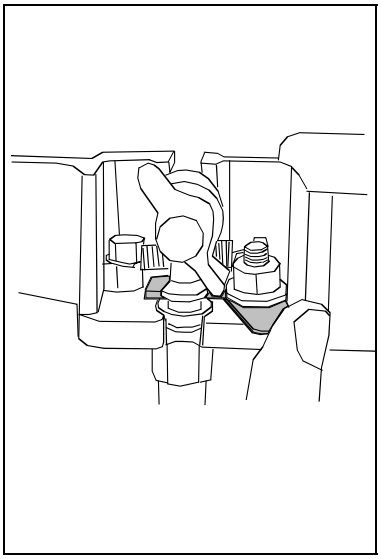
Check the state of wear and tear of the squeegee blades and, if necessary, replace them.

To replace them you must:

1. Remove the squeegee hose from the nozzle
2. push the release lever and unthread the small right-hand column
3. Disassemble the squeegee from its support
4. Loosen the wing nuts by two turns
5. Remove the squeegee band clamp and squeegee blade
6. Replace the squeegee blades

To reassemble the squeegee, repeat the above-mentioned operations in the reverse order.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



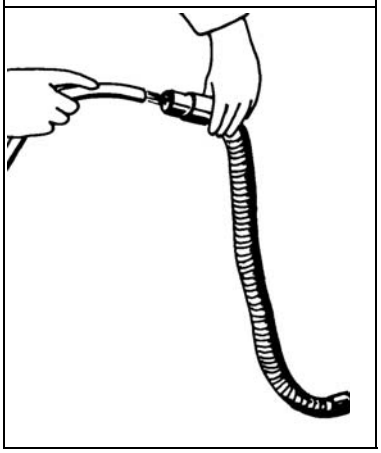
WEEKLY MAINTENANCE

1. CLEANING THE SQUEEGEE HOSE

Every week, or whenever vacuum seems to be unsatisfactory, check the squeegee hose for obstructions. To clean it, proceed as follows:

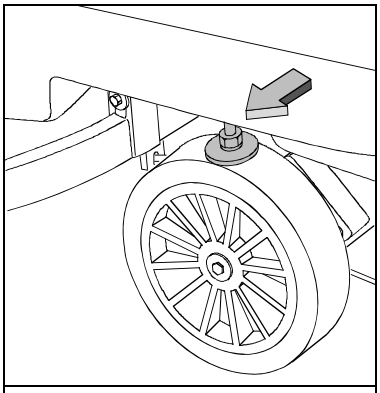
1. Remove the hose from the sleeve on the squeegee
2. Remove the other end from the recovery tank
3. Wash the inside of the hose with water introduced from the side where it is connected to the tank
4. Reassemble the hose

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



2. CHECKING THE BRAKE

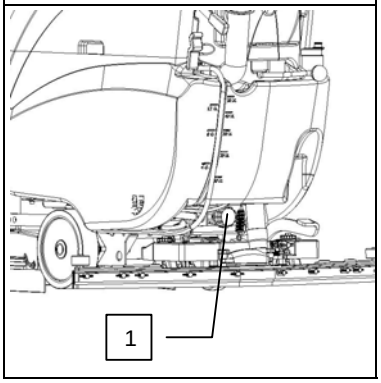
Every week, check the distance between the work brake pads and the wheels. If necessary, adjust them by means of the nuts, so they are at a distance of 0.12 in (3mm) when released.



2. CLEANING THE SOLUTION TANK

1. Loosen the solution tank cap.
2. Rinse with water.
3. Loosen the drainage cap (1) located on the filter, and empty the tank.

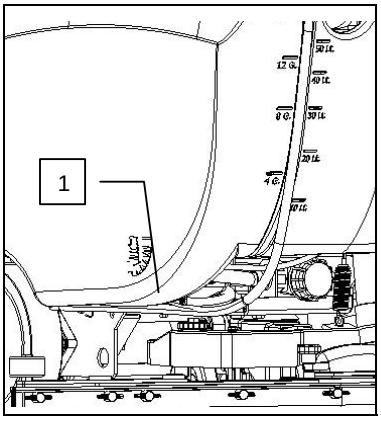
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals



TROUBLESHOOTING

INSUFFICIENT WATER ON THE BRUSH

41 Check the valve – located beneath the symbol – (1) is turned on.
51 Check there is water in the solution tank.



THE MACHINE DOES NOT CLEAN WELL

41 Check the state of wear and tear of the pad and, if necessary, replace it.
51 Use a different kind of pad to the one fitted as standard. For cleaning floors where the dirt is particularly resistant, we recommend the use of special brushes supplied upon request and according to needs (see “CHOOSING AND USING THE BRUSHES”).

THE SQUEEGEE DOES NOT DRY PERFECTLY

41 Check the squeegee blades are clean.
51 Adjust the inclination of the squeegee (see "SQUEEGEE" under “MACHINE PREPARATION”)
61 Ensure the vacuum hose is correctly inserted in its housing on the recovery tank.
71 Check the inner filter of the recovery tank to ensure it is not dirty and, if necessary, clean it thoroughly.
81 Disassemble the entire vacuum unit and clean it.
91 Replace the squeegee blades, if worn.
:1 Ensure the vacuum motor switch is turned on.
;1 Check wheel adjustment.

TOO MUCH FOAM IS GENERATED

Check that low-foam detergent is being used. If necessary add a small amount of anti-foam liquid to the recovery tank.
Remember that more foam is generated when the floors are not very dirty. Dilute the detergent more when cleaning floors that are not very dirty.

CHOOSING AND USING THE BRUSHES

POLYPROPYLENE BRUSH (PPL)
Used on all types of floors. Good resistance to wear and tear, and hot water (no greater than 140°F (60°C)). The Polypropylene brush is non-hydroscopic and therefore retains its characteristics even when working in wet conditions.

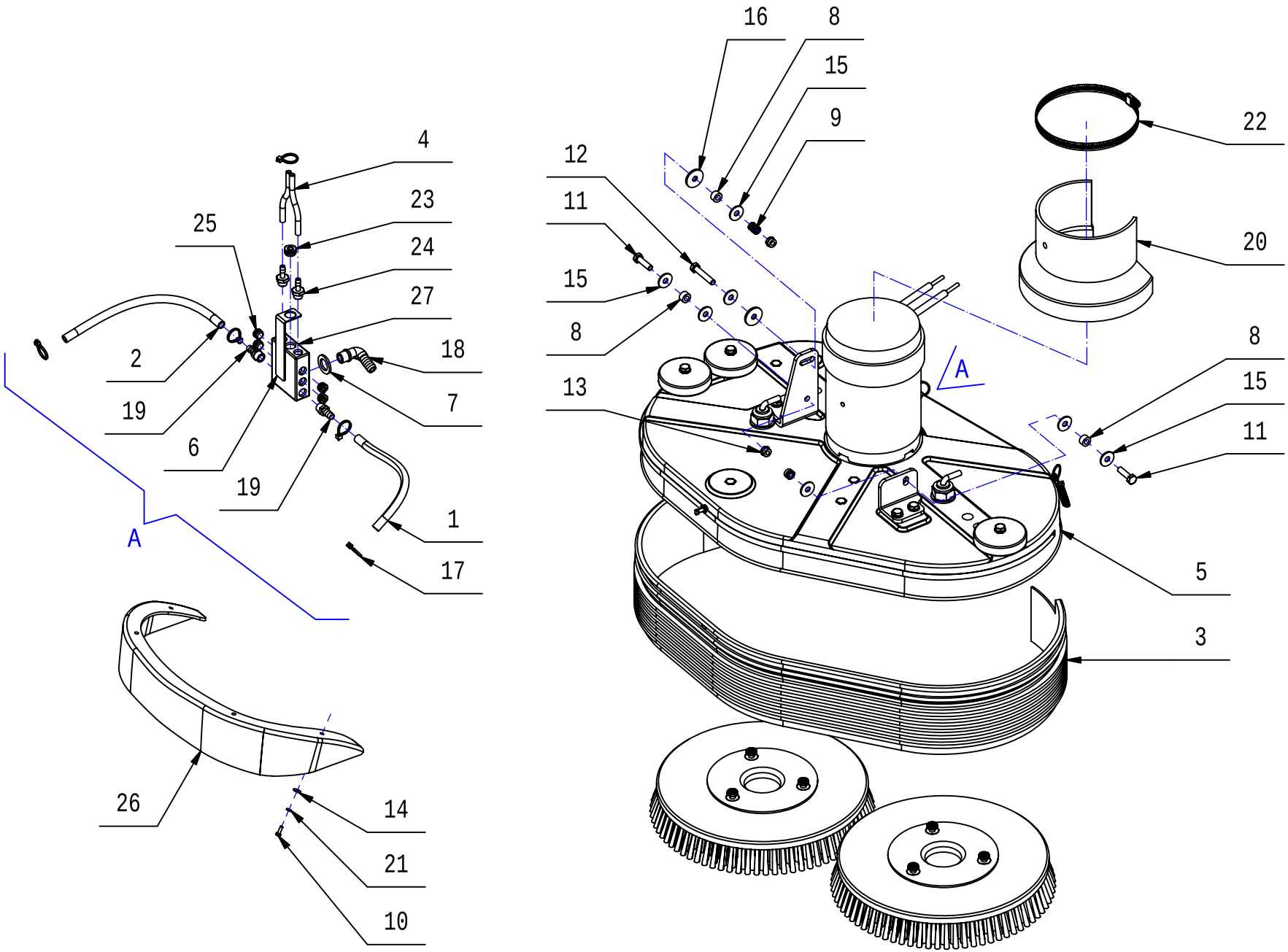
NYLON BRUSH
Used on all types of floors. Excellent resistance to wear and tear and hot water (even over 140°F (60°C)). The nylon is hydroscopic and it tends to lose its characteristics over time when working in wet conditions.

ABRASIVE BRUSH
The bristles of this type of brush are coated with highly aggressive abrasives. It is used to clean very dirty floors. To avoid floor damage work only with the head pressure necessary.

THICKNESS OF THE BRISTLES
Thicker bristles are more rigid and are therefore used on smooth floors or floors with small joints.
On uneven floors or those with deep joints, it is advisable to use softer bristles which can enter the gaps easier.
Remember that when the bristles are worn and too short, they will become rigid and are no longer able to penetrate and clean deep down. In this case the brush tends to jump.

PAD DRIVER
The pad holder is recommended for cleaning smooth surfaces.
There are two types of pad holder:

1. The traditional pad holder is fitted with a series of anchor points that allow the abrasive floor pad to be held and dragged while working
2. The CENTER LOCK type pad holder not only has anchor points, but also a snap-type central locking system made of plastic that allows the abrasive floor pad to be perfectly centered and held without any risk of it becoming detached. This type of dragging device is recommended above all for machines with more than one brush, where the centering of the abrasive discs is difficult.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Item Number	Part Number	Description	QTY.
1	E20476	Tubing 8 ID x 12 OD x 250 L	1
2	E20329	Tubing 8 ID x 12 OD x 300 L	1
3	E86143	Splash Guard	1
4	E82710	Hose, 8 OD x 5 ID x L 105	2
5	E20416	Brush Deck	1
6	E20628	Support Bracket	1
7	E20474	Flat Washer M18x30x3 Nylon	1
8	E83932	Bushing	3
9	E82309	Spring, Compression	1
10	E83857	Hex Bolt M4x12 Zinc	4
11	E83802	Hex Bolt M8x30 Zinc	2
12	E83827	Hex Bolt M8x45 Zinc	1
13	E81709	Nyloc Hex Nut, M8 Zinc	3
14	E83037	Flat Washer M4x12x1.6 Zinc	4
15	E83404	Flat Washer M9x24x2.5 Zinc	7
16	E83832	Flat Washer M8.5x30x3 Nylon	2
17	E83935	Hose Clamp	5
18	E86275	Barbed Elbow	1
19	E20481	Barbed Nipple	2
20	E20637	Brush Motor Cover	1
21	E20475	Lock Washer M4 Zinc	4
22	E20607	Hose Clamp	1
23	E20627	Cap	1
24	E81552	Fitting	2
25	E20581	Plug	4
26	E20187	Plug	1
27	E20631	Manifold	1

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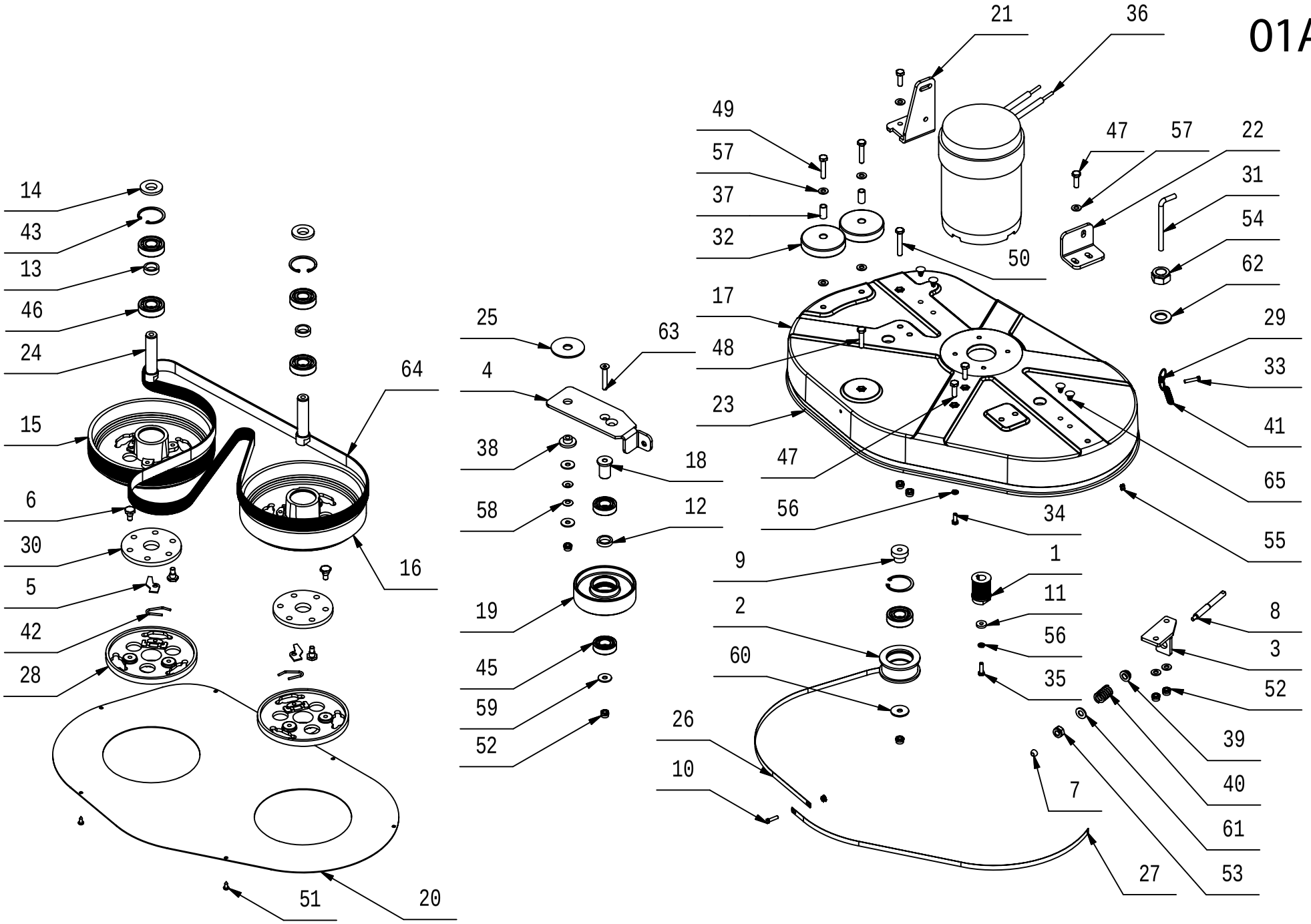
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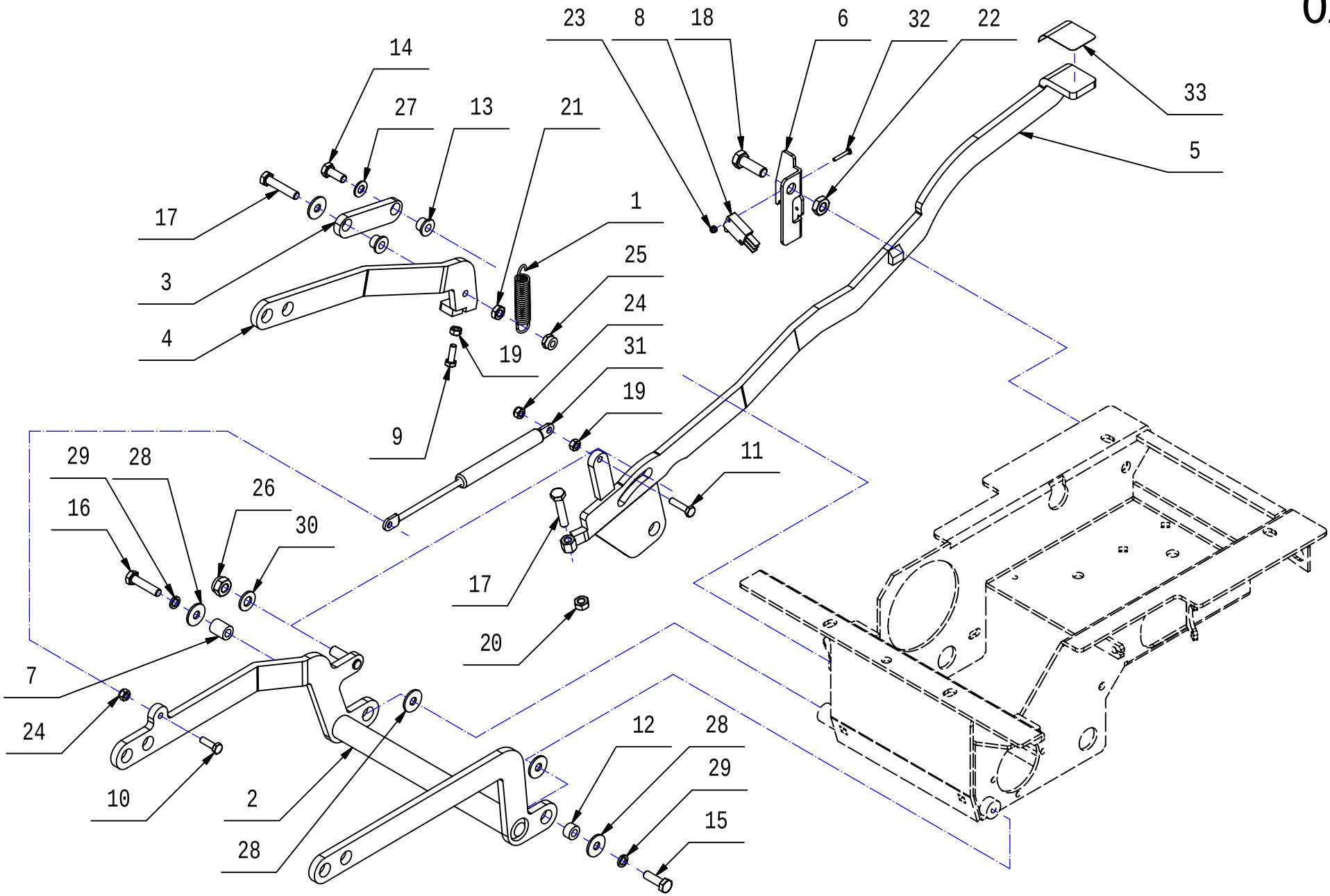
Item Number	Part Number	Description	QTY.
1	E82424	Motor Pulley	1
2	E85723	Idler Pulley	1
3	E20428	Tensioner Bracket	1
4	E20491	Tensioner Arm	1
5	E81957	Pad Driver Retainer Clip	2
6	E20007	Stud Bolt	12
7	E88009	Bushing	1
8	E88008	Adjuster	1
9	E87279	Bushing	1
10	E83823	Screw M5x20/ SS Custom	1
11	E20615	Flat Washer M6.5x18x4	1
12	E20546	Spacer	1
13	E86216	Spacer	2
14	E87281	Spacer	2
15	E20517	Brush Pulley	1
16	E20508	Brush Pulley	1
17	E20564	Brush Deck	1
18	E20311	Bushing	1
19	E20622	Idler Pulley	1
20	E20419	Brush Deck Cover	1
21	E20624	Brush Deck Lift Bracket	1
22	E20061	Brush Deck Lift Bracket	1
23	E20335	Sheath	1
24	E87284	Shaft	2
25	E88110	Flat Washer M6.1x60x3 Nylon	1
26	E81926	Band Clamp	1
27	E81926	Band Clamp	1
28	E20535	Clutch Plate	2
29	E83489	Rings	2
30	E20229	Flexible Coupling	2
31	E82303	Pipe	2
32	E83895	Wheel 80 OD x 23 W	3
33	E20086	Hex Bolt M5x25 Zinc	2
34	E83547	Hex Bolt M6x16 Zinc	4
35	E82772	Hex Bolt M6x20 Zinc	1
36	E82738	Brush Motor 24VDC 560W	1
37	E83524	Bushing	3
38	E88014	Bushing	1
39	E88007	Bushing	1
40	E83698	Tension Spring	1
41	E83491	Spring	2
42	E81953	Spring, Brush Lock	2
43	E81656	Retaining Ring - Internal	3
44	E83700	Shaft Key	1
46	E81657	Bearing	5
47	E83833	Hex Bolt M8x25 Zinc	6
48	E83801	Hex Bolt M8x35 Zinc	1
49	E83830	Hex Bolt M8x40 Zinc	3
50	E87285	Hex Bolt M8x50 Zinc	1
51	E88017	Screw, Pan Hd Phil Self Tap M4.8x13 SS	6
52	E81709	Nyloc Hex Nut, M8 Zinc	12
53	E83381	Nyloc Hex Nut, M10 Zinc	1
54	E88015	Nyloc Hex Nut, M20x17 Zinc	2
55	E88010	Hex Nut, M5	6
56	E82774	Flat Washer M6x12x1.6 SS	5
57	E81874	Flat Washer M8x17x1.6 Zinc	12
58	E20126	Cupped Spring Washer M8x18x1	2
59	E83404	Flat Washer M9x24x2.5 Zinc	3
60	E81918	Flat Washer M9x32x2.5 Zinc	1
61	E82773	Flat Washer M10x21x2 Zinc	1
62	E20253	Flat Washer M21x60x3 Nylon	2
63	E20350	Flat Hd Soc Machine Screw M8x50 Zinc	1
64	E81808	Poly Vee Belt	1
65	E20427	Plug	4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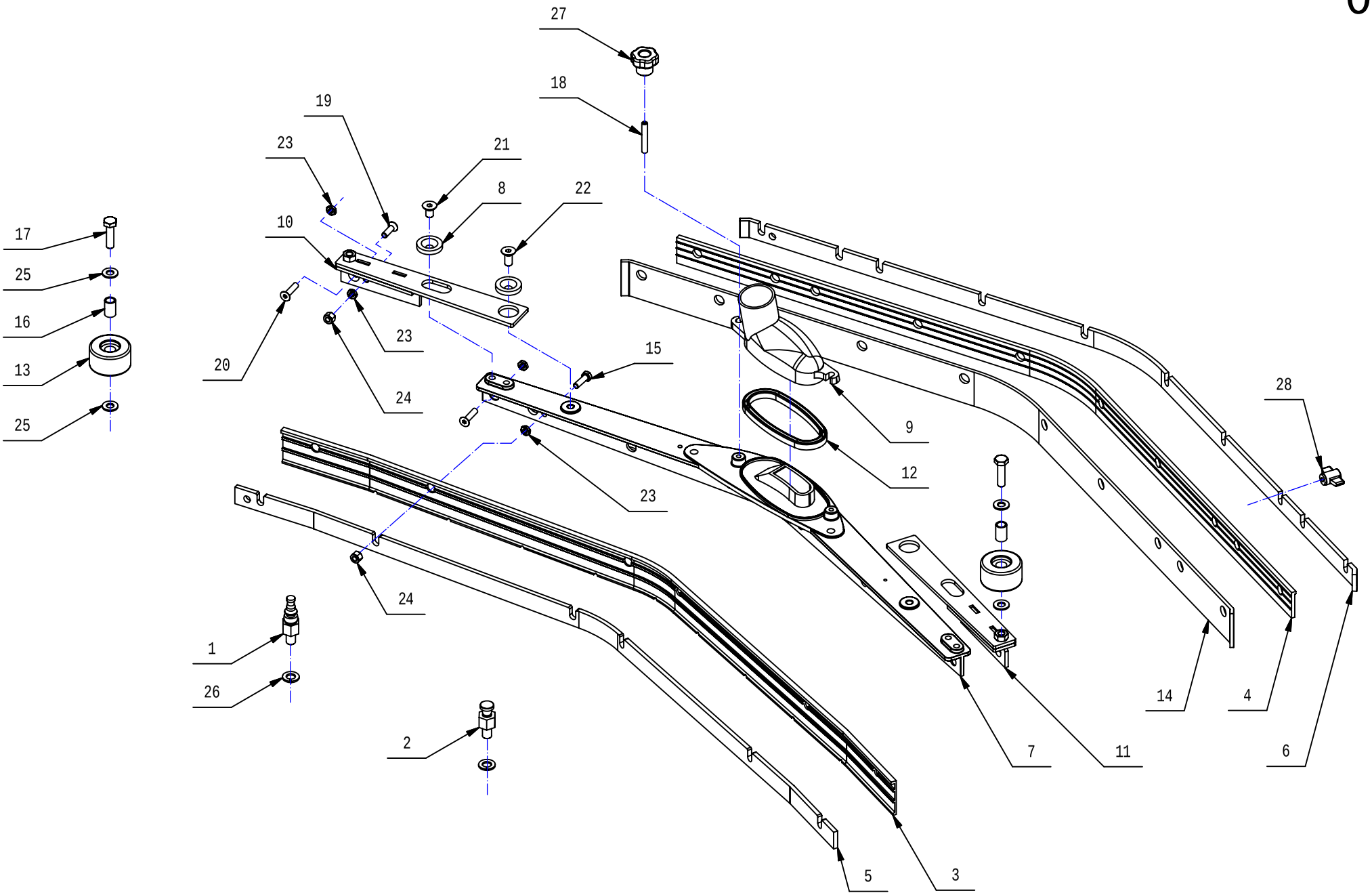
Item Number	Part Number	Description	QTY.
1	E82689	Spring	1
2	E20219	Brush Deck Lift Arm Weldment	1
3	E20220	Brush Deck Lift Arm Linkage	1
4	E20062	Brush Deck Lift Idler Arm	1
5	E20282	Brush Deck Lift Foot Pedal	1
6	E20283	Foot Pedal Latch Plate	1
7	E20063	Bushing	1
8	E88279	Micro Switch Sealed	1
9	E20088	Hex Bolt M6x18 Zinc	1
10	E82772	Hex Bolt M6x20 Zinc	1
11	E20090	Hex Bolt M6x25 Zinc	1
12	E83932	Bushing	1
13	E82285	Bushing	2
14	E81917	Hex Bolt M8x20 Zinc	1
15	E83833	Hex Bolt M8x25 Zinc	1
16	E83801	Hex Bolt M8x35 Zinc	1
17	E83830	Hex Bolt M8x40 Zinc	2
18	E81017	Hex Bolt 10x30 Zinc	1
19	E83852	Hex Nut, M6x5	2
20	E83656	Hex Nut, M8x6.5 Zinc	1
21	E82808	Hex Jam Nut, M8X5 Zinc	1
22	E83875	Hex Jam Nut, M10X6 Zinc	1
23	E81673	Hex Nyloc Nut, M3 Zinc	2
24	E83550	NyLoc Hex Nut, M6 Zinc	2
25	E81709	Nyloc Hex Nut, M8 Zinc	1
26	E83381	Nyloc Hex Nut, M10 Zinc	1
27	E81874	Flat Washer M8x17x1.6 Zinc	1
28	E83404	Flat Washer M9x24x2.5 Zinc	5
29	E83704	Lock Washer M8x13x2.2 Zinc	2
30	E82773	Flat Washer M10x21x2 Zinc	1
31	E20130	Shock Absorber	1
32	E20533	Hex Bolt M3x20 SS	2
33	E20635	Abrasive Antislip Tape	1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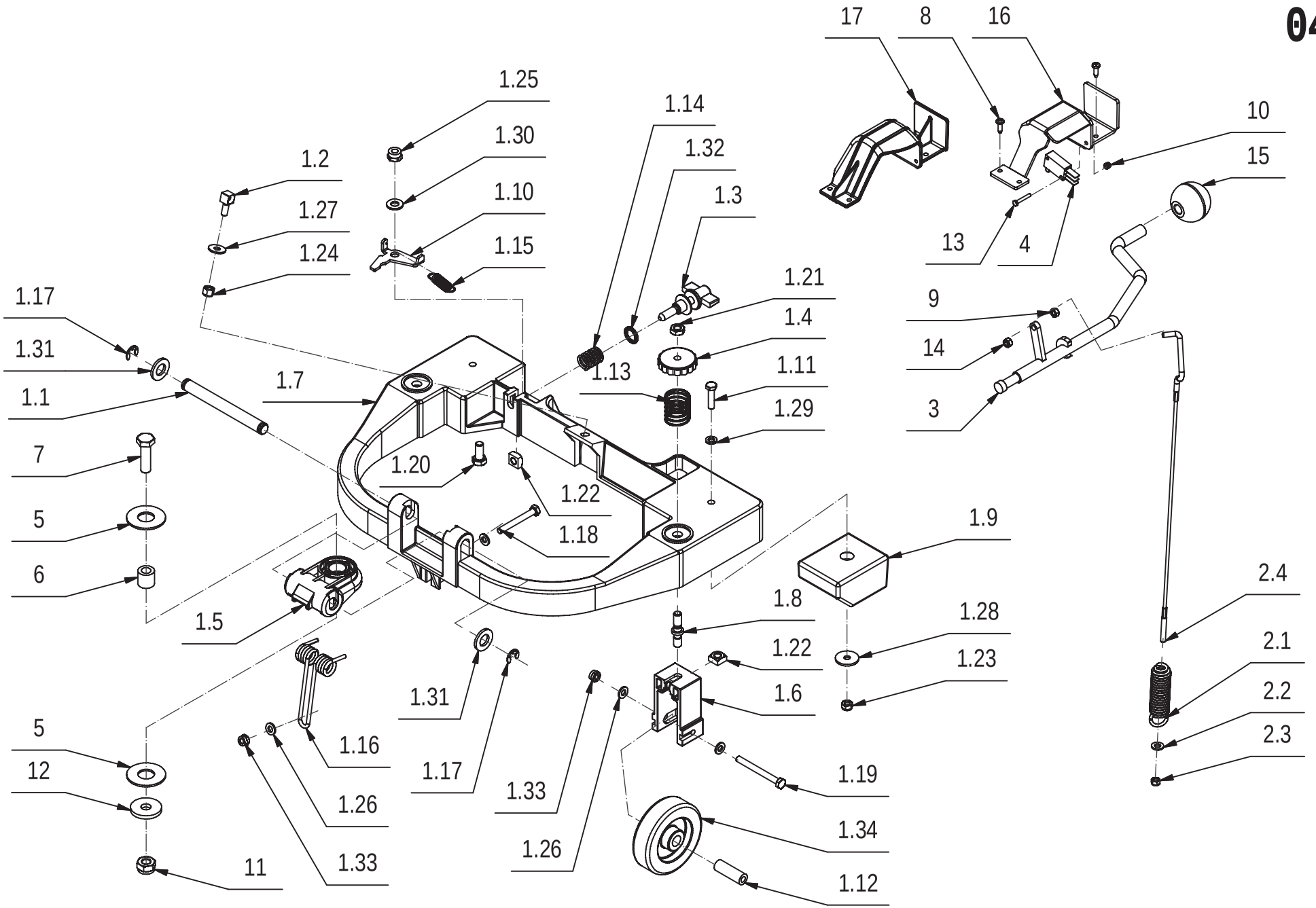
Item Number	Part Number	Description	QTY.
1	E82275	Stud Bolt M10 Custom	1
2	E82280	Squeegee Pin	1
3	E81834	Squeegee Blade Front	1
4	E81835	Squeegee Support Blade Rear	1
5	E20617	Band Clamp	1
6	E20012	Band Clamp	1
7	E20573	Squeegee Shoe	1
8	E20498	Brass Washer - Custom	4
9	E82307	Squeegee Vacuum Adapter	1
10	E20572	Squeegee Shoe Extender	1
11	E20077	Squeegee Shoe Extender	1
12	E83971	Gasket	1
13	E82451	Wheel 45 OD x 25 W	2
14	E81833	Squeegee Blade Rear	1
15	E83914	Hex Bolt M6x20 SS	4
16	E82253	Bushing	2
17	E83802	Hex Bolt M8x30 Zinc	2
18	E82707	Set Screw Hex Soc Flat End M6x40 SS	2
19	E83831	Flat Hd Soc Machine Screw M6x20 SS	2
20	E81848	Flat Hd Soc Machine Screw M6x25 SS	10
21	E20345	Flat Hd Soc Machine Screw M8x14 Zinc	2
22	E20247	Flat Hd Soc Machine Screw M8x18 Zinc	2
23	E20114	Hex Jam Nut, M6X3 SS	16
24	E82775	Nyloc Hex Nut, M6 SS	6
25	E81874	Flat Washer M8x17x1.6 Zinc	4
26	E83948	Lock Washer M10x18x2.2 Zinc	2
27	E81435	Knob	2
28	E83591	Knob	10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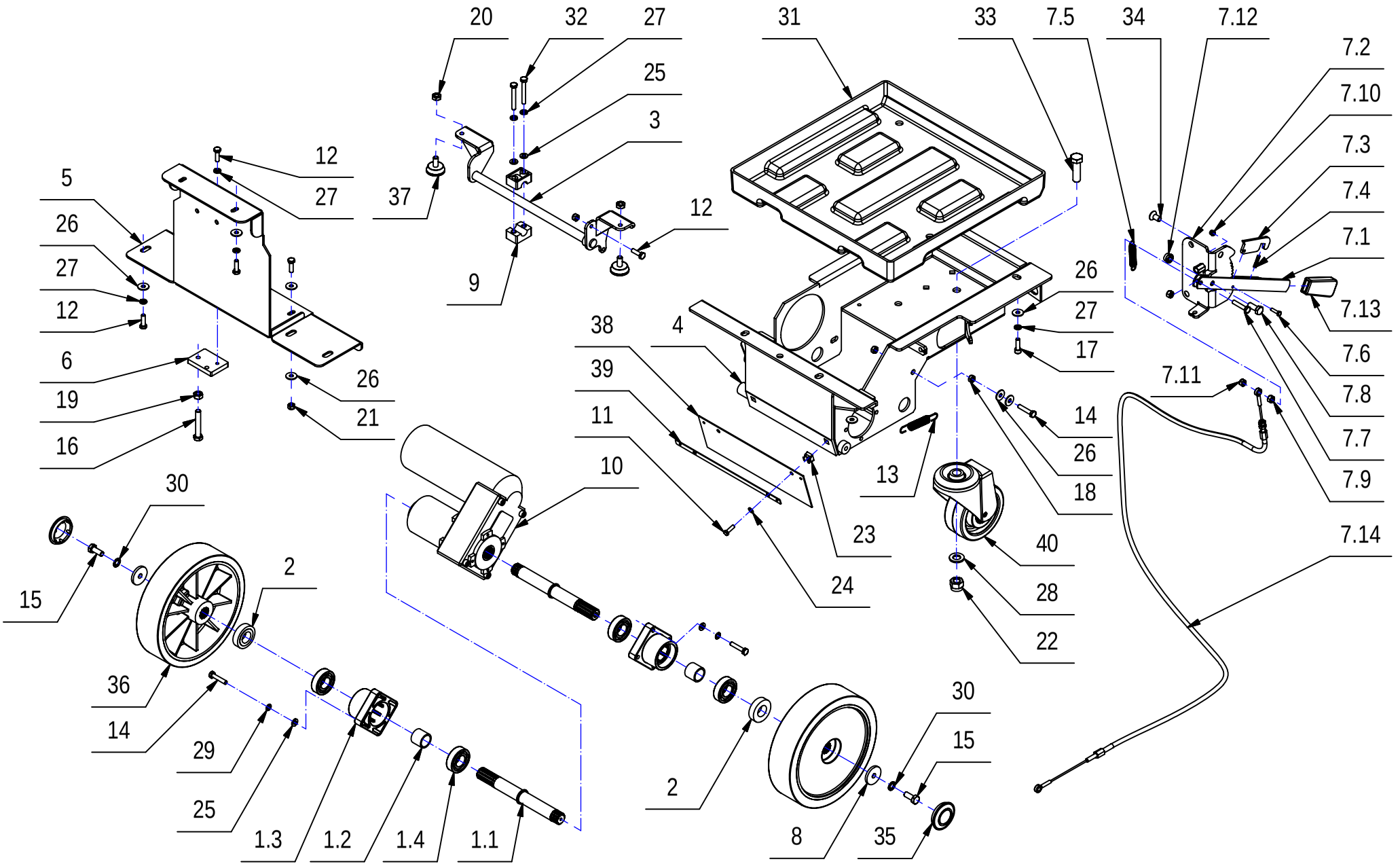
Item Number	Part Number	Description	QTY.
1	E20623	Squeegee Yoke ASM	1
1.1	E20010	Pivot Pin	1
1.2	E82389	Eye Bolt	1
1.3	E82265	Adjuster, Squeegee	1
1.4	E83331	Knob	2
1.5	E85776	Pivot Connector	1
1.6	E20078	Squeegee Wheel Support	2
1.7	E81880	Squeegee Yoke	1
1.8	E20079	Threaded Adjuster Rod	2
1.9	E20080	Ballast	2
1.10	E86252	Latch, Squeegee Connector	1
1.11	E20090	Hex Bolt M6x25 Zinc	2
1.12	E82274	Bushing	2
1.13	E20091	Spring	2
1.14	E82703	Spring	1
1.15	E82453	Spring	1
1.16	E86158	Spring	1
1.17	E85498	E Style Circlip	2
1.18	E86159	Hex Bolt M6x50 Zinc	1
1.19	E83866	Hex Bolt M6x60 SS	2
1.20	E20098	Hex Bolt M8x18 Zinc	1
1.21	E83672	Hex Jam Nut, M8x5 SS	2
1.22	E83824	Square Nut, M8 SS	3
1.23	E83550	NyLoc Hex Nut, M6 Zinc	2
1.24	E82775	Nyloc Hex Nut, M6 SS	1
1.25	E81709	Nyloc Hex Nut, M8 Zinc	1
1.26	E82761	Flat Washer M6x12x1.6 Zinc	6
1.27	E82798	Flat Washer M6x18x1.5 Zinc	1
1.28	E83278	Flat Washer M6.5x24x2 Zinc	2
1.29	E82774	Flat Washer M6x12x1.6 SS	2
1.3	E20125	Flat Washer M8x17x1.6 SS	1
1.31	E85722	Flat Washer M13x24x2.5 Zinc	2
1.32	E81406	External Serrated Lock Washer M13x18 Zinc	1
1.33	E82314	Nyloc Hex Nut, M6 SS	3
1.34	E88280	Wheel 80 OD x 23 W	2
2	E88278	Squeegee Lift Rod ASM	1
2.1	E82279	Spring	1
2.2	E82761	Flat Washer M6x12x1.6 Zinc	1
2.3	E20382	Nyloc Hex Nut, M5x5 Zinc	1
2.4	E88250	Squeegee Lift Cable	1
3	E20313	Squeegee Lift Lever	1
4	E88279	Micro Switch Sealed	1
5	E20337	Flat Washer M17x40x2 Delrin	2
6	E20231	Bushing	1
7	E82455	Hex Bolt M10x35 Zinc	1
8	E83838	Screw 4.2 X 13	4
9	E82317	Hex Jam Nut, M5X3.5 Zinc	1
10	E81673	Hex Nyloc Nut, M3 Zinc	2
11	E83381	Nyloc Hex Nut, M10 Zinc	1
12	E20295	Flat Washer M10.5x32x4Zinc	1
13	E20533	Hex Bolt M3x20 SS	2
14	E20382	Nyloc Hex Nut, M5x5 Zinc	1
15	E20638	Knob	1
16	E20641	Bracket	1
17	E20641	Bracket	1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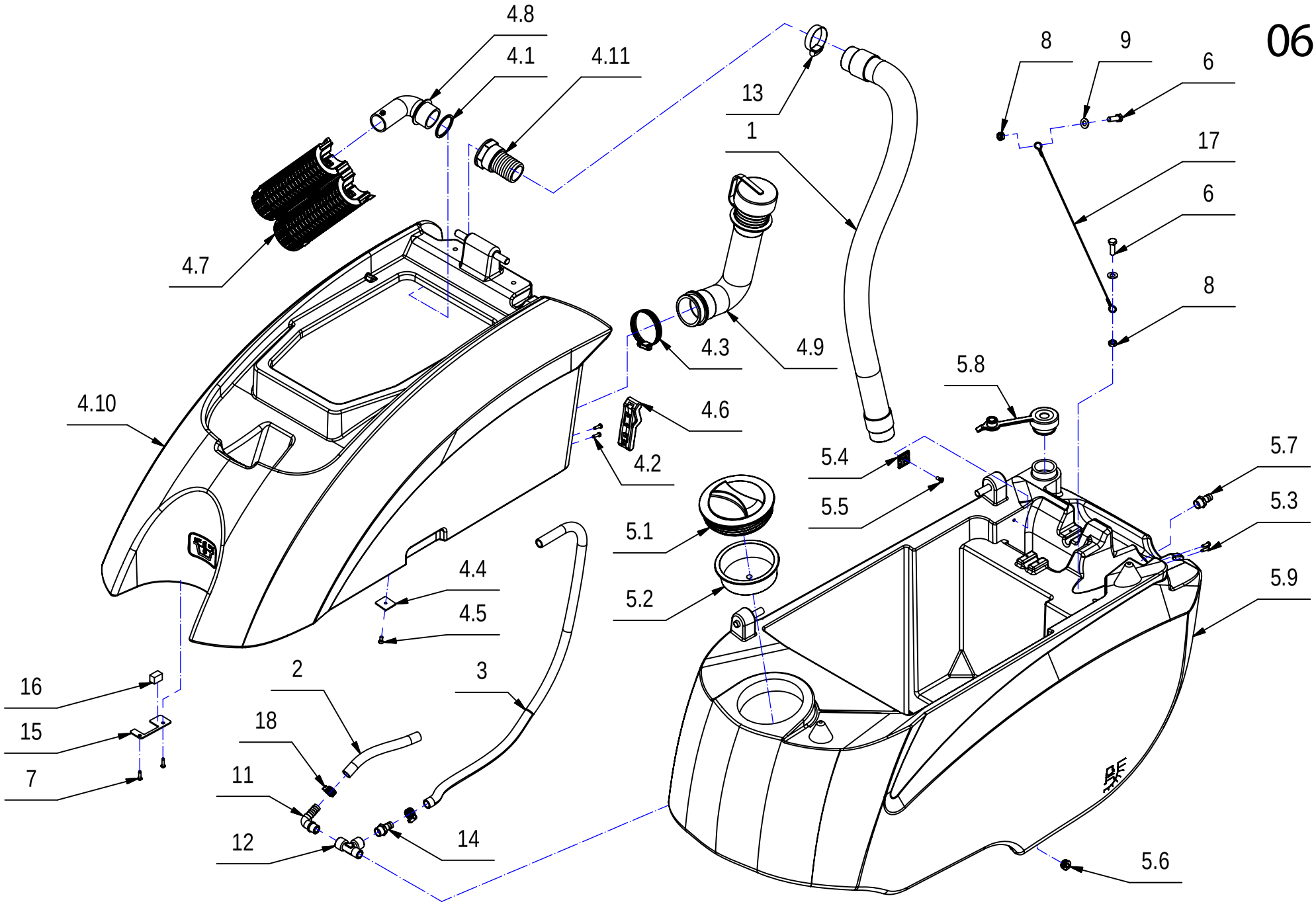
Item Number	Part Number	Description	QTY.
1	E20003	Axle Shaft ASM	2
1.1	E20478	Axle Shaft	1
1.2	E20482	Spacer	1
1.3	E20081	Bearing Block	1
1.4	E83923	Bearing	2
2	E20013	Spacer	2
3	E20492	Brake Arm Weldment	1
4	E20407	Main Frame Weldment	1
5	E20221	Frame Bracket	1
6	E20222	Plate	1
7	E20518	Brake Lever ASM	1
7.1	E20595	Brake Lever	1
7.2	E20522	Brake Lever Bracket	1
7.3	E81928	Latch Lock	1
7.4	E82255	Spring	1
7.5	E83491	Spring	1
7.6	E20341	Hex Bolt M4x16 Zinc	1
7.7	E83974	Hex Bolt M6x30 Zinc	1
7.8	E81917	Hex Bolt M8x20 Zinc	1
7.9	E20112	Hex Nut, M6x6 Zinc	2
7.10	E83867	Nyloc Hex Nut, M4x6 Zinc	1
7.11	E83550	NyLoc Hex Nut, M6 Zinc	1
7.12	E81709	Nyloc Hex Nut, M8 Zinc	1
7.13	E20423	Brake Handle Grip	1
7.14	E20537	Brake Cable	1
8	E81915	Flat Washer M8.2x32x4 Zinc	2
9	E82834	Pivot Block	4
10	E86182	Drive Motor 24VDC 150W	1
11	E20084	Hex Bolt M5x16 SS	2
12	E82772	Hex Bolt M6x20 Zinc	7
13	E81056	Spring	1
14	E83974	Hex Bolt M6x30 Zinc	9
15	E81917	Hex Bolt M8x20 Zinc	2
16	E87285	Hex Bolt M8x50 Zinc	1
17	E20489	Soc Hd Cap Screw M6x20 Zinc	2
18	E83852	Hex Nut, M6x5	2
19	E83656	Hex Nut, M8x6.5 Zinc	1
20	E82808	Hex Jam Nut, M8X5 Zinc	2
21	E83550	NyLoc Hex Nut, M6 Zinc	2
22	E20249	Nyloc Hex Nut, M12x15 Zinc	1
23	E20250	Cage Nut M5	2
24	E81618	Flat Washer M5x10x1 SS	2
25	E82761	Flat Washer M6x12x1.6 Zinc	12
26	E82798	Flat Washer M6x18x1.5 Zinc	11
27	E82774	Flat Washer M6x12x1.6 SS	11
28	E85722	Flat Washer M13x24x2.5 Zinc	1
29	E81438	External Serrated Lock Washer M6 Zinc	8
30	E83868	External Serrated Lock Washer M8 Zinc	2
31	E88002	Battery Tray	1
32	E20360	Hex Bolt M6x45 Zinc	4
33	E20379	Hex Bolt M12x40 Zinc	1
34	E20297	Flat Hd Soc Machine Screw M8x16 Zinc	2
35	E81971	Wheel Cap	2
36	E88282	Wheel 200 OD x 50 W	2
37	E20175	Brake Pad M8x17	2
38	E88283	Chassis Splash Guard	1
39	E20176	Band Clamp	1
40	E20177	Caster	1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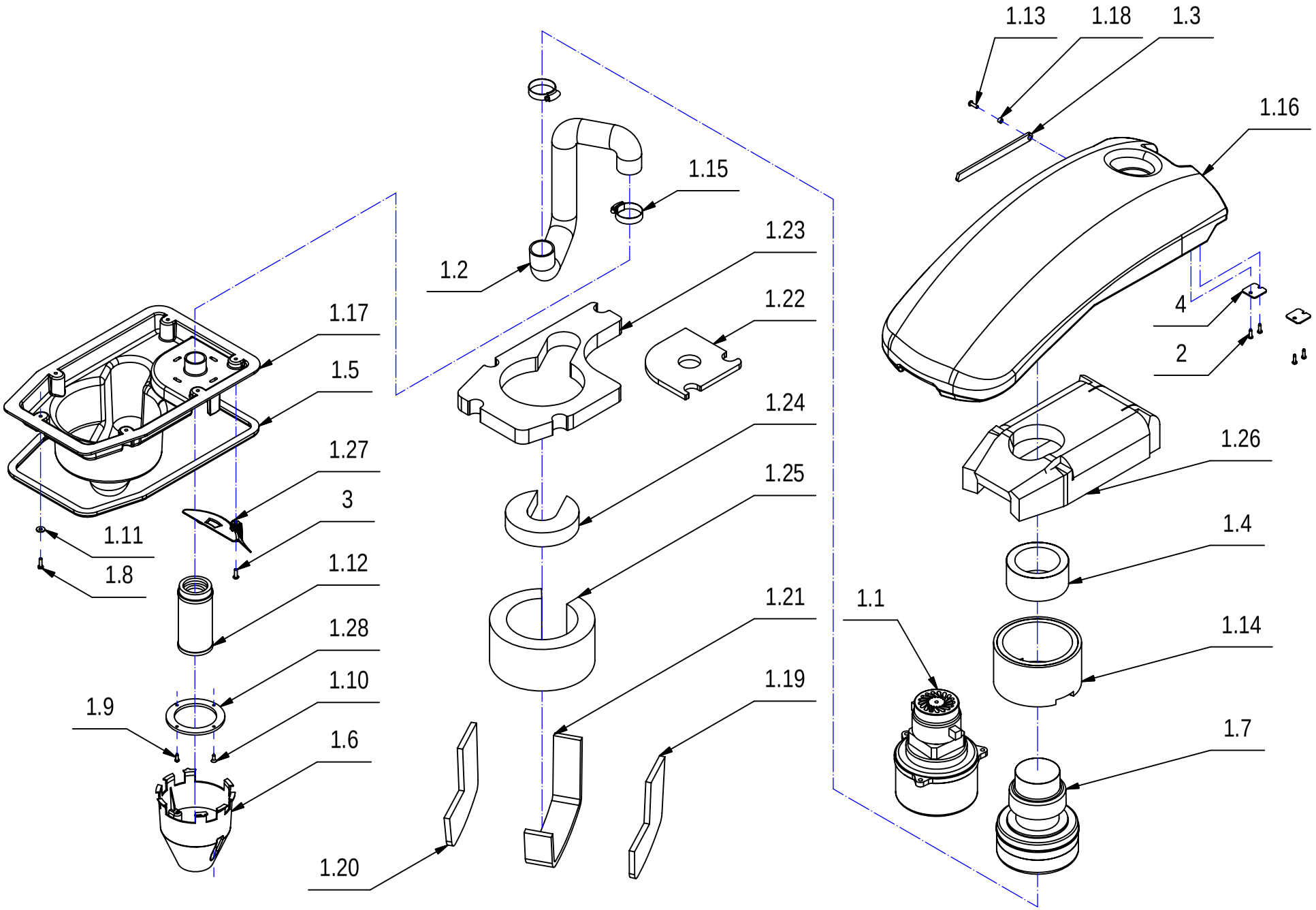
Item Number	Part Number	Description	QTY.
1	E12666	Squeegee Vacuum Hose	1
2	E88287	Hose, Glass Reinforced 17 OD x 12 ID x 200 L	1
3	E88288	Hose, Glass Reinforced 17 OD x 12 ID x 820 L	1
4	E20228	Recovery Tank ASM	1
4.1	E82341	Gasket	1
4.2	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	2
4.3	E20432	Hose Clamp	1
4.4	E81619	Support Bracket	1
4.5	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	1
4.6	E20413	Latch	1
4.7	E88285	Filter, Cage	1
4.8	E20186	Elbow	1
4.9	E88286	Hose, Drain	1
4.10	E20202	Recovery Tank	1
4.11	E20189	Barbed Nipple	1
5	E20376	Solution Tank ASM	1
5.1	E82429	Cap	1
5.2	E82612	Filter	1
5.3	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	2
5.4	E81619	Support Bracket	1
5.5	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	1
5.6	E20627	Cap	1
5.7	E82269	Barbed Fitting, 3/8 in.	1
5.8	E20185	Cap	1
5.9	E20201	Solution Tank	1
6	E83833	Hex Bolt M8x25 Zinc	2
7	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	4
8	E82808	Hex Jam Nut, M8X5 Zinc	2
9	E20127	Flat Washer M9x18x1.5 Zinc	2
10	E83935	Hose Clamp	3
11	E86275	Barbed Elbow	1
12	E20651	Tee Fitting	1
13	E20325	Hose Clamp	1
14	E82269	Barbed Fitting, 3/8 in.	1
15	E20399	Pivot Plate	2
16	E20190	Spacer Block	2
17	E88260	Lanyard	1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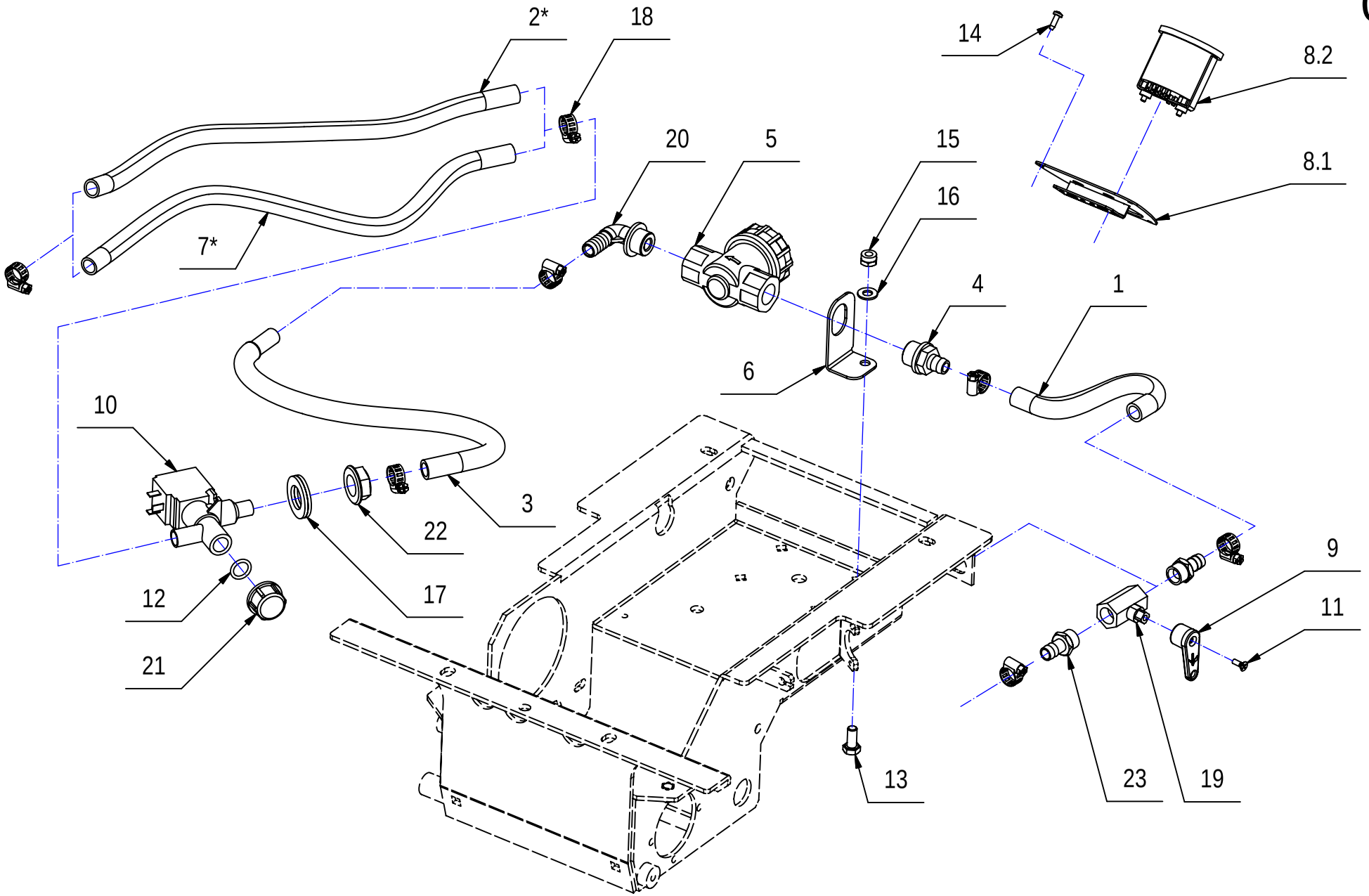
Item Number	Part Number	Description	QTY.
1	E20629	Recovery Tank Cover ASM	1
1.1	E20599	Vacuum Motor 24VDC 550W	1
1.2	E88290	Hose, Vacuum	1
1.3	E20064	Support Bracket	1
1.4	E20440	Sound Deadening Foam	1
1.5	E88289	Gasket	1
1.6	E81006	Vacuum Splash Guard	1
1.7	E88200	Vacuum Motor 36VDC 550W	1
1.8	E20084	Hex Bolt M5x16 SS	5
1.9	E20102	Screw, Pan Hd Phil Self Tap M4.2x13 SS	2
1.10	E83796	Screw, Pan Hd Phil Self Tap M4.2x16 Zinc	2
1.11	E20122	Flat Washer M5x15x1.5 SS	5
1.12	E88292	Filter, Cage	1
1.13	E20442	Button Hd Soc Machine Screw M5x16 Zinc	1
1.14	E20652	Sound Deadening Foam	1
1.15	E20325	Hose Clamp	2
1.16	E20199	Recovery Tank Cover	1
1.17	E20384	Vacuum Motor Cover	1
1.18	E20486	Bushing	1
1.19	E20266	Sound Deadening Foam	1
1.20	E20178	Sound Deadening Foam	1
1.21	E20179	Sound Deadening Foam	1
1.22	E20180	Sound Deadening Foam	1
1.23	E20181	Sound Deadening Foam	1
1.24	E20182	Sound Deadening Foam	1
1.25	E20183	Sound Deadening Foam	1
1.26	E20184	Sound Deadening Foam	1
1.27	E20191	Deflector	1
1.28	E20305	Mounting Ring	1
2	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	4
3	E20298	Soc Button Head Screw M5x16 SS	1
4	E20265	Plate	2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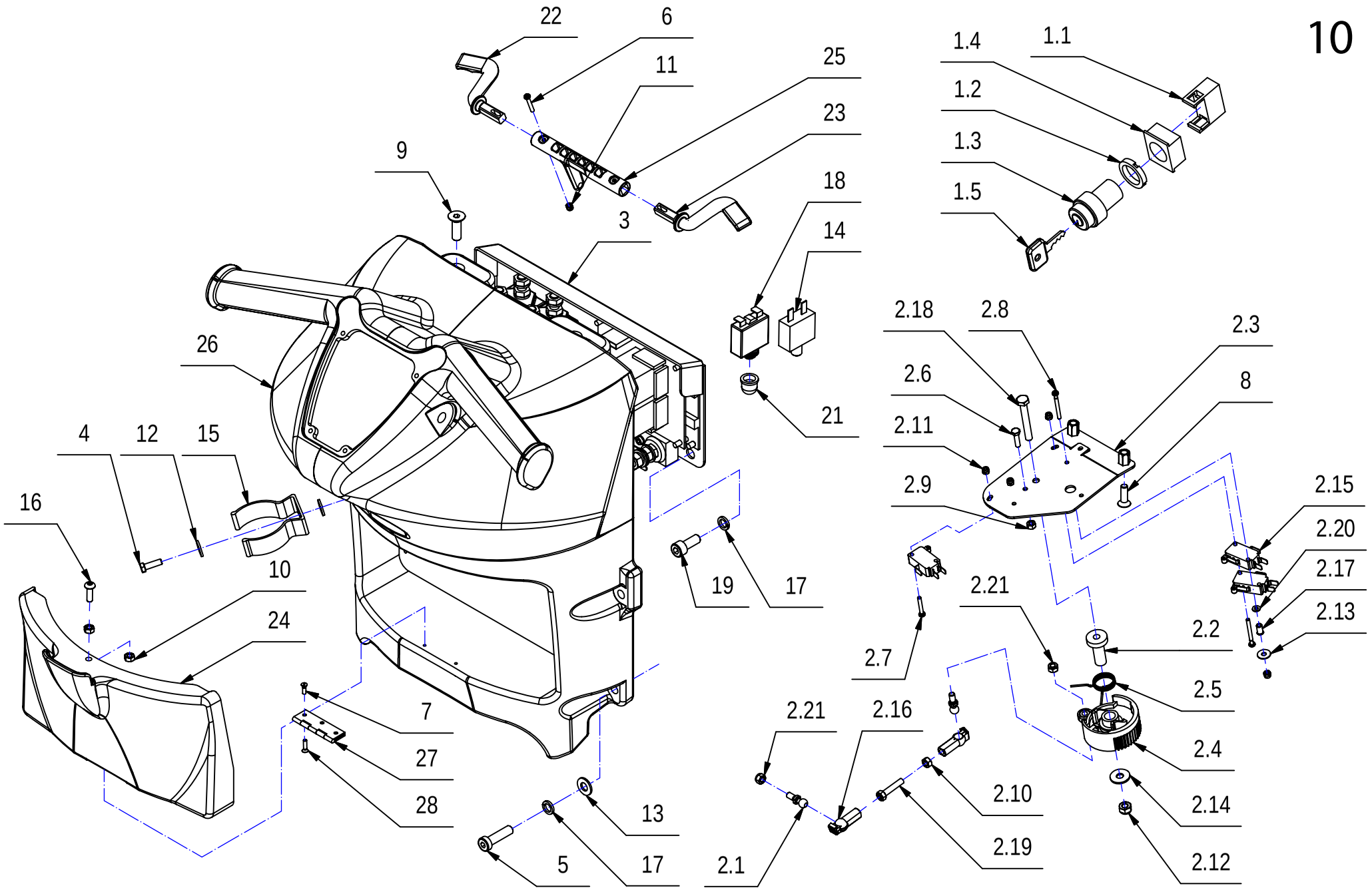
Item Number	Part Number	Description	QTY.
1	E20004	Tubing 12 ID x 200 L	1
2*	E20530	Tubing 12 ID x 460 L	1
3	E82693	Hose, 17 OD x 12 ID x L 420	1
4	E82447	Barbed Nipple	1
5	E88207	Filter	1
6	E20457	Bracket	1
7*	E20493	Tubing 12 ID x 560 L	1
8	E20463	Instrument Panel ASM	1
8.1	E20332	Panel	1
8.2	E88293	Hour Meter	1
9	E82705	Valve Lever	1
10	E82322	Solenoid Valve	1
11	E83858	Oval Hd SL Machine Screw M4x12 SS	1
12	E83617	O-Ring	1
13	E20098	Hex Bolt M8x18 Zinc	1
14	E83838	Screw 4.2 X 13	4
15	E81709	Nyloc Hex Nut, M8 Zinc	1
16	E81874	Flat Washer M8x17x1.6 Zinc	1
17	E20253	Flat Washer M21x60x3 Nylon	2
18	E85762	Hose Clamp	7
19	E83361	Ball Valve	1
20	E81446	Fitting	1
21	E83616	Cap	1
22	E20433	Ring Nut 1/2"	1
23	E82269	Barbed Fitting, 3/8 in.	2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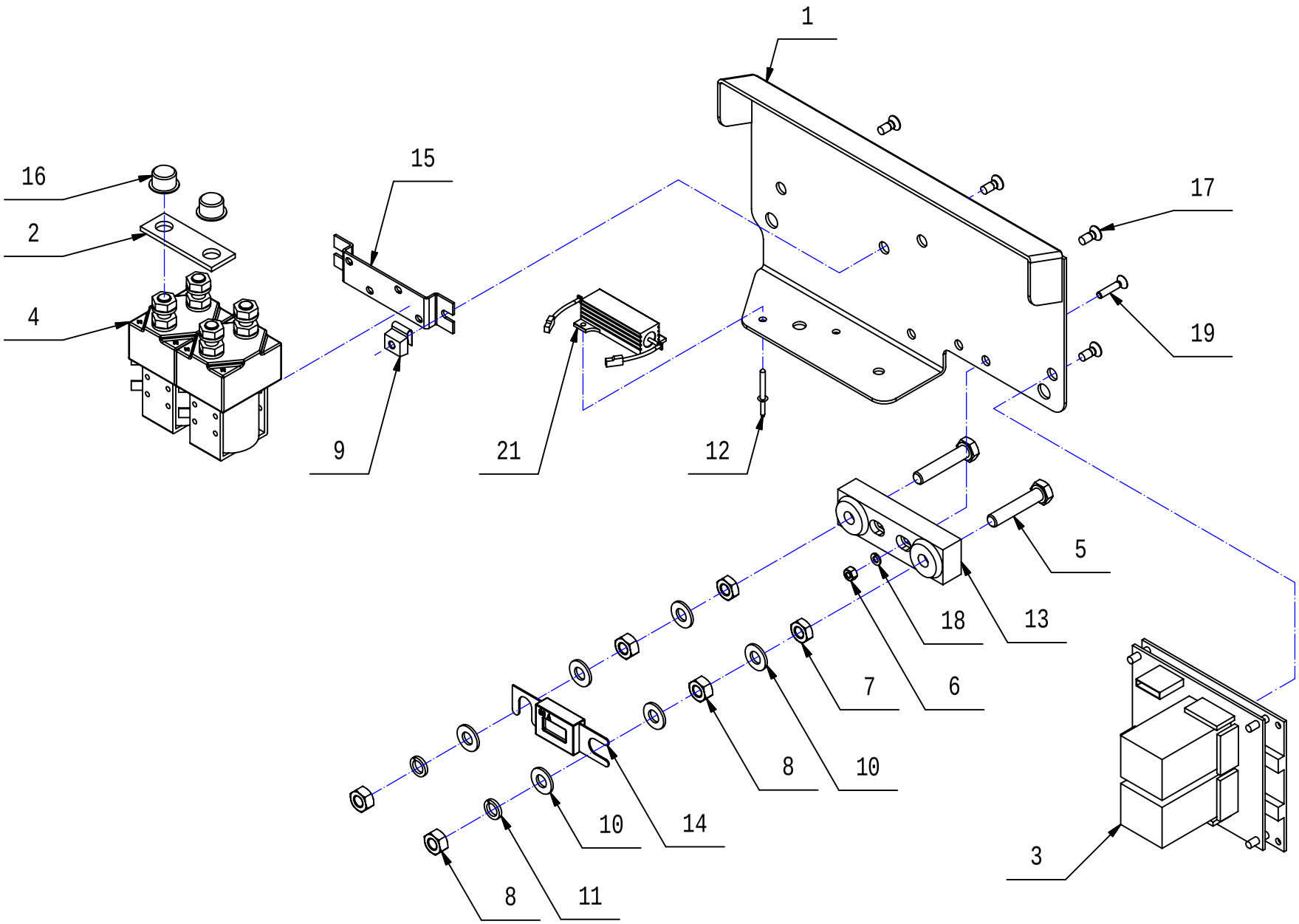
Item Number	Part Number	Description	QTY.
1	E82351	Key Switch	1
1.1	E83173	Key Switch Contact	1
1.2	E83316	Key Switch	1
1.3	E83316	Key Switch	1
1.4	E81358	Switch Flange	1
1.5	E83315	Switch Key	1
2	E20223	Drive Control	1
2.1	E20330	Pin	2
2.2	E20574	Bushing	1
2.3	E20556	Plate	1
2.4	E81763	Cam	1
2.5	E82304	Spring	1
2.6	E20341	Hex Bolt M4x16 Zinc	1
2.7	E20242	Pan Hd Phil Machine Screw M3x20 Zinc	2
2.8	E20243	Pan Hd Phil Machine Screw M3x30 Zinc	2
2.9	E20248	Hex Nut, M4x4 Zinc	1
2.10	E82317	Hex Jam Nut, M5X3.5 Zinc	2
2.11	E81673	Hex Nyloc Nut, M3 Zinc	4
2.12	E83550	NyLoc Hex Nut, M6 Zinc	1
2.13	E83037	Flat Washer M4x12x1.6 Zinc	1
2.14	E82798	Flat Washer M6x18x1.5 Zinc	1
2.15	E82270	Micro Switch	3
2.16	E81625	Ball Stud Receiver	2
2.17	E20466	Insert	1
2.18	E20360	Hex Bolt M6x45 Zinc	1
2.19	E20362	Set Screw Hex Soc Dog Point M5x30 Zinc	1
2.20	E20469	Flat Washer M3 SS	2
2.21	E20382	Nyloc Hex Nut, M5x5 Zinc	2
3	E20625	Electrical Control Panel ASM	1
4	E83836	Hex Bolt M5x16 Zinc	1
5	E20288	Soc Hd Cap Screw M8x30 Zinc	4
6	E20242	Pan Hd Phil Machine Screw M3x20 Zinc	2
7	E81672	Flat Hd SL Machine Screw M3x10 SS	2
8	E20111	Flat Hd Soc Machine Screw M6x20 Zinc	2
9	E20346	Flat Hd Soc Machine Screw M8x25 SS	2
10	E82317	Hex Jam Nut, M5X3.5 Zinc	2
11	E81673	Hex Nyloc Nut, M3 Zinc	2
12	E20121	Flat Washer M5x15x1.5 Zinc	2
13	E81874	Flat Washer M8x17x1.6 Zinc	4
14	E83959	Circuit Breaker 20A	1
15	W87296	Drain Hose Clip	1
16	E20442	Button Hd Soc Machine Screw M5x16 Zinc	1
17	E81046	Lock Washer M8 Zinc	7
18	E83952	Circuit Breaker 30A	1
19	E20614	Soc Hd Cap Screw M8x20 Zinc	3
20	E88299	Cover, Thermal Switch	1
21	E20576	Cap	1
22	E88300	Lever, Left Switch	1
23	E88301	Lever, Right Switch	1
24	E20267	Door	1
25	E88267	Switch Cam	1
26	E20200	Handlebar Housing	1
27	E20400	Hinge	1
28	E20192	CHIPBOARD SCREW M3x12 Zinc	2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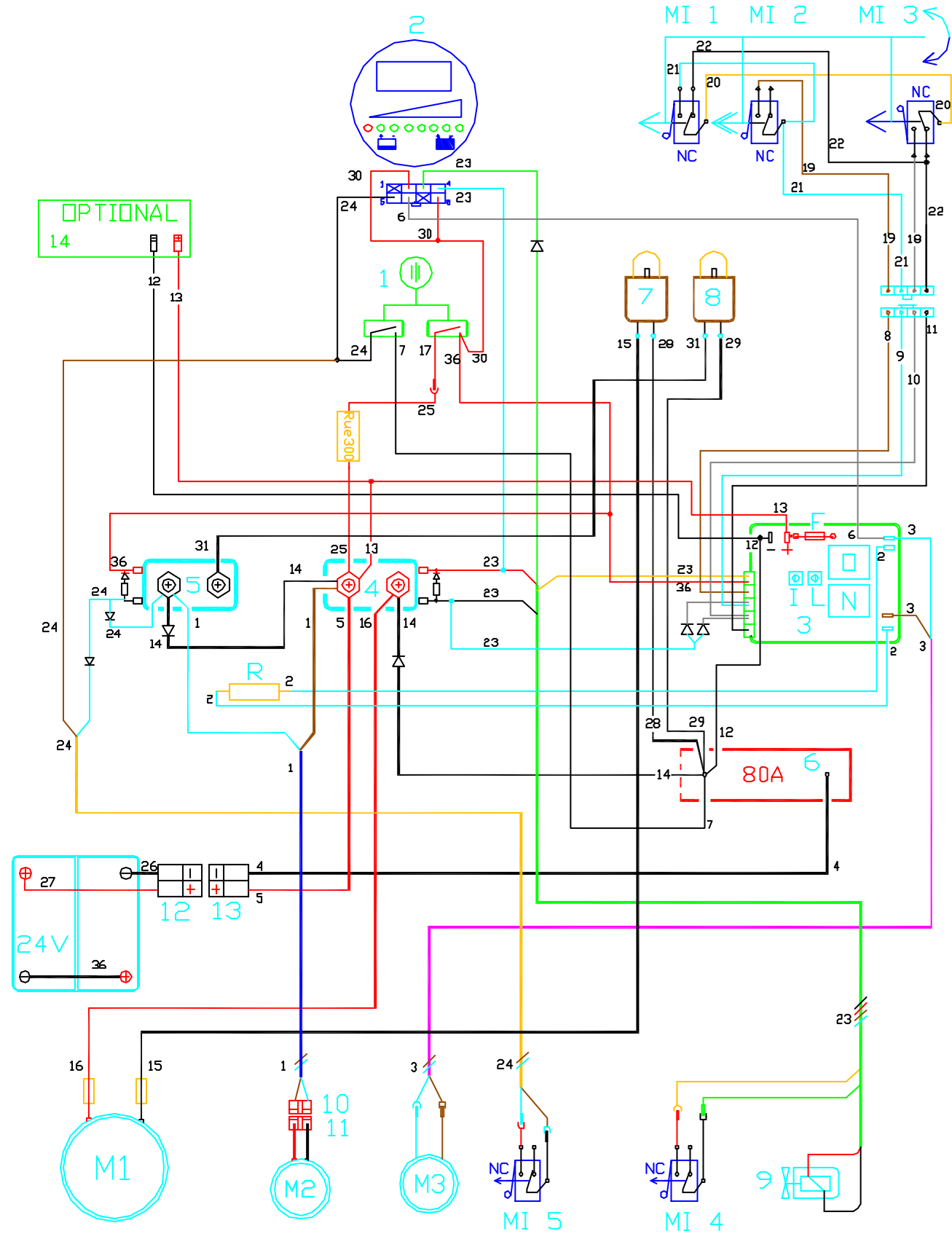
Item Number	Part Number	Description	QTY.
1	E20065	Bracket	1
2	E20536	Buss Bar	1
3	E20646	Variable Speed Controller	1
4	E83628	Contactor 24VDC	2
5	E20097	Hex Bolt M8x40 SS	2
6	E20248	Hex Nut, M4x4 Zinc	2
7	E83672	Hex Jam Nut, M8x5 SS	2
8	E20115	Hex Nut, M8x6.5 Brass	4
9	E20479	Spring Nut M5	2
10	E20124	Flat Washer M8x17x1.6 SS	6
11	E20252	Lock Washer M8x13x2.2 SS	2
12	E20377	Rivet, M2.4x8 AL	2
13	E20484	Fuse Block	1
14	E83170	Fuse, 80 Amp	1
15	E20448	Bracket	1
16	E20129	Cap	4
17	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	5
18	E20475	Lock Washer M4 Zinc	2
19	E20301	Flat Hd Phil Machine Screw M4x20 Zinc	2
20	E20309	Cable Kit	1
21	E20368	Resistor	1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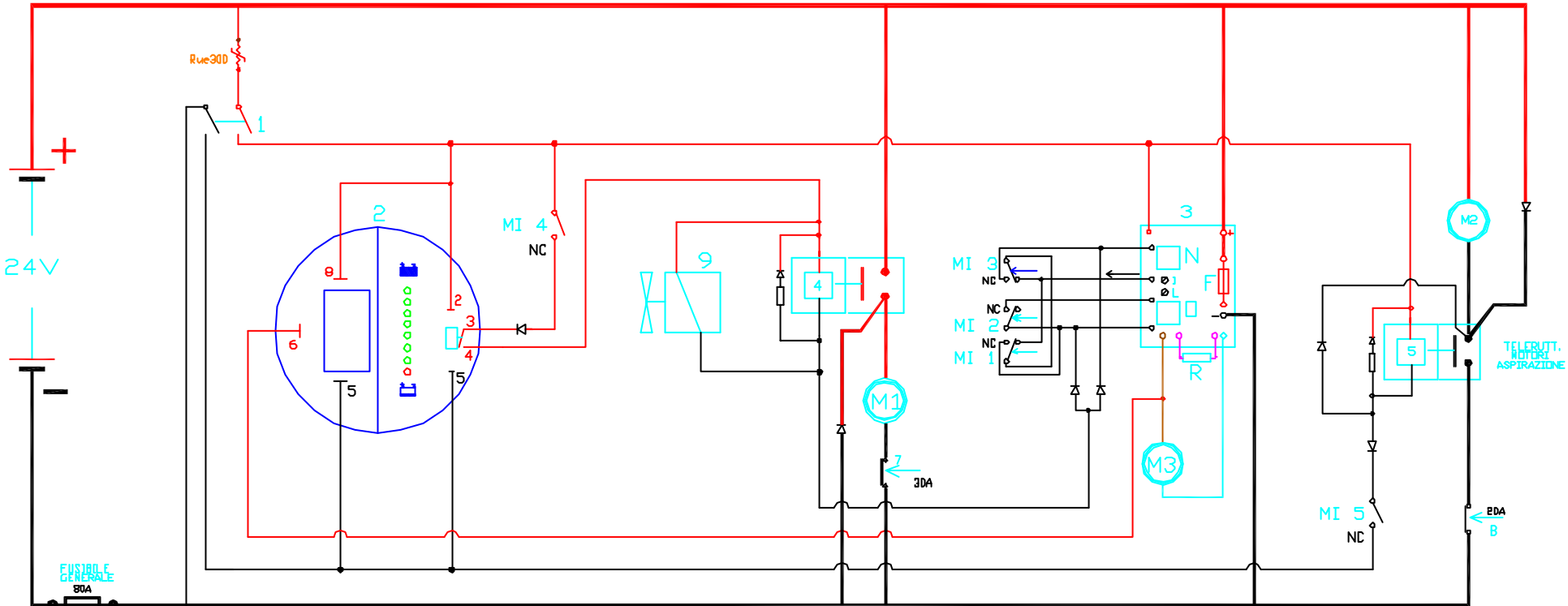
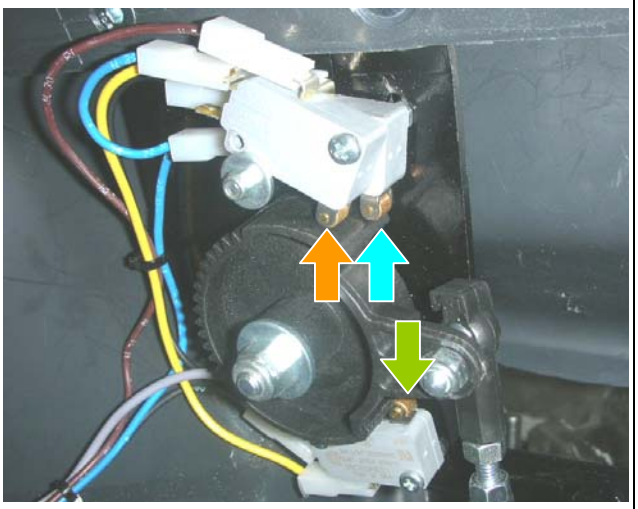
Item Number	Part Number	Description
1	E82351	Key Switch
2	E88293	Hour Meter
3	E82511	Variable Speed Controller
4	E83628	Contactor 24VDC
5	E83628	Contactor 24VDC
6	E83170	Fuse, 80 Amp
7	E83952	Circuit Breaker 30A
8	E83959	Circuit Breaker 20A
9	E82322	Solenoid Valve
9A	E81035	Solenoid Valve
10	E20402	Electrical Connector 30A
11	E20402	Electrical Connector 30A
12	E20619	SB175 Red Electrical Connector
13	E20619	SB175 Red Electrical Connector
F	E83972	Fuse 30A fasten
N	E83159	Relay 24VDC 20A
R	E20368	Resistor
MI 1	E82270	Micro Switch
MI 2	E82270	Micro Switch
MI 3	E82270	Micro Switch
MI 4	E88249	Micro Switch
MI 5	E88249	Micro Switch
M1A	E20543	Brush Motor 24VDC 560W
M2	E88291	Vacuum Motor 36VDC 550W
M3	E86182	Drive Motor 24VDC 150W

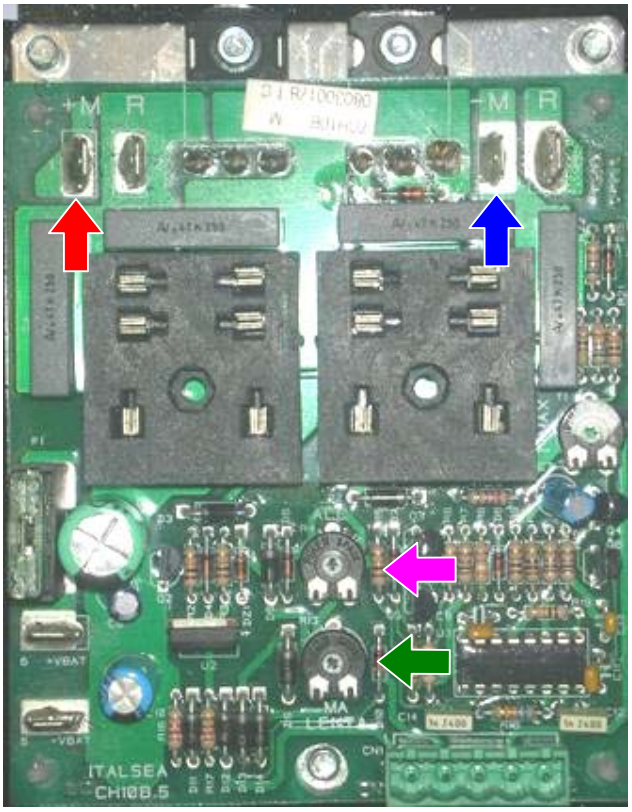

Rue30D
1
2
9
6
5
2
3
4
5
MI 4
NC
9
4
M1
7
30A
MI 3
NC
NC
MI 2
NC
MI 1
3
N
F
L
R
M3
M2
5
MI 5
NC
TELERUTT.
MOTORI
ASPIRAZIONE
EDA
B
24V
+
-
FUSIBILE
GENERALE
80A

Electric harness inspaction

1. Verify the functionality of the variable speed control card.
2. If necessary adjust the traction card as follow:

- Lift up at least one of the traction wheel
- Remove the handle to guarantee access to the electric plant
- Set-up the tester in volt-meter with 50V maximun
- Put the tester pins on the fast on **M+** and **M-** of the variable speed control card.
- Turn on the key master switch
- Pull the lever until you hear the forward first **micro switch click** (first speed)
- The tester has to show a voltage between 14 and 15 V. If the reading is different act in the **trimmer "MA Lenta"** (first speed) to have the right output voltage
- Pull completely the accelerator lever until the second (maximum) speed **micro switch** is pressed. A voltage of 24V (the same of the battery voltage) has to be read; in opposite case verify the power connections and the conditions of the battery
- Acceleration adjustment: act on the **"ACC" trimmer** to let it be between 30° and 45° respect the central position rotating clockwise. Verify that with this regulation the machine reach the maximun speed in 4 second
- Check the backward direction
- Check the braking power of the traction motor. At maximum speed the machine has to stop in about 1 meter





Battery check card adjustment

1. Verify that turning on the machine the battery check card has the following starting sequence:

- Turning on of the LED which correspond to the set-up (red LED = “0”).
- Turning on of all the LEDs (check of the lamps)
- Turning on of the LEDs depending on the charge of the battery

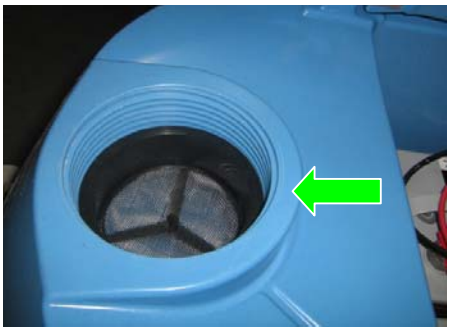
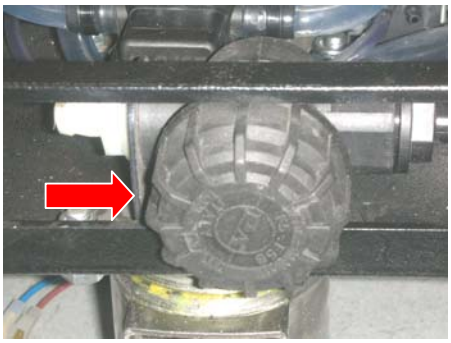
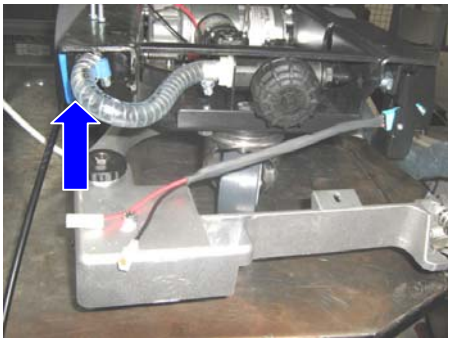
2. Verify the hour meter functionality

To verify which is the set-up you simply need to turn on the machine and check which is the first LED that turns on. Counting the LEDs since the left side any LED correspond to a position and the LED which turn on correspond to the current set-up.

Verify that if the machine uses wet cell batteries the adjustment is on position 1.

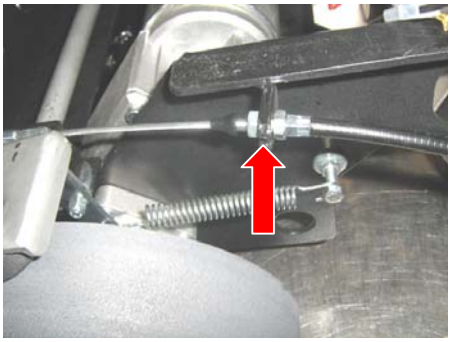
Verify that if the machine uses GEL batteries the adjustment is on position 4.

WARNING: A wrong set-up of the battery control card can compromise the battery efficiency and damage then in irreversible way.

Water plant inspection	
1. Verify the cleanness and functionality of the **solution filter** under the solution tank plug.	
2. Check cleanness and sealing of the **solution filter**.	
3. Fill completely the solution tank. 4. Verify the sealing of the hoses, **solenoid valve** and the **water valve**. 5. Verify that the solution, with valve completely open, fall continuously on the floor.	

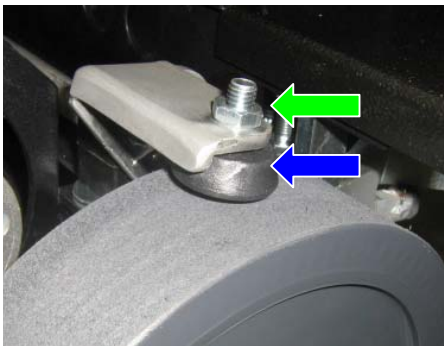
Brake adjustment

1. Fix the brake wire to the chassis screw in up completely the **sheath** to the support.



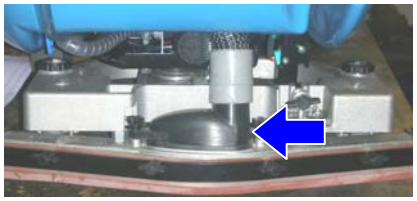
2. Adjust the pads on the wheels to let the machine be blocked when the brake lever reach the third step.
3. To adjust the pads act as follow:

- Unscrew the **M8 jam nut**.
- Unscrew or screw the **pad** to put it in the right position.
- Block the **M8 jam nut**.



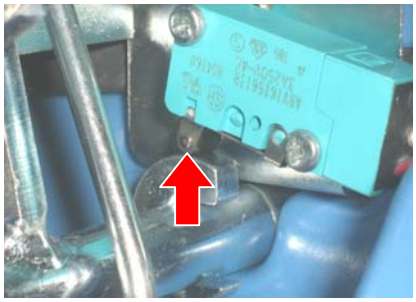
Vacuum system inspection

1. Verify the cleanness and functionality of the **floating filter**.
2. Check the air sealing of the **vacuum head** on the recovery tank.
3. Verify the connections and the sealing of the vacuum hoses and the squeegee hoses.
4. Check the sealing of the **squeegee hose adapter**.
5. Check the sealing of the exhaust hose and exhaust hose plug.



6. Vacuum microswitch adjustment:

7. Adjust the vacuum micro switch in way that when the cam on the squeegee lever **push the microswitch** there is about 0.5 mm of clearance of the microswitch lever.

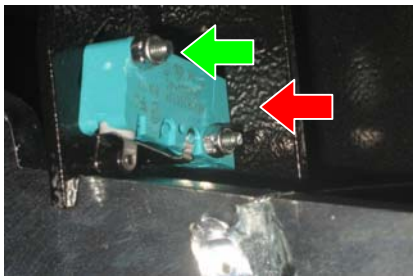


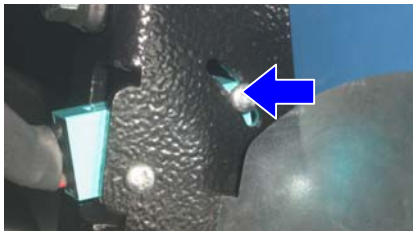
Brush assembly micro switch adjustment

1. Verify that when the pedal is hooked the **micro switch** il switched and the micro switch lever has about 0.5 mm of clearance.

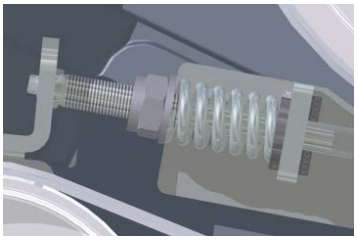
2. If necessary adjust the microswitch as follow:

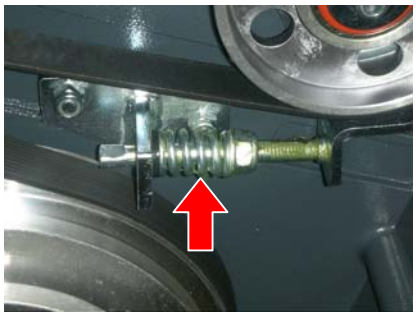
- Unscrew the **self locking M3 nut** and the **M3 screw**;
- Move the microswitch using the **eyelet**;
- Fix the **self locking nut** and the **M3 screw** to fix the micro switch being careful to not screw too much the screw-nut system to not damage the micro switch.
- When the adjustment is finished verify the proper functionality of the micro switch.





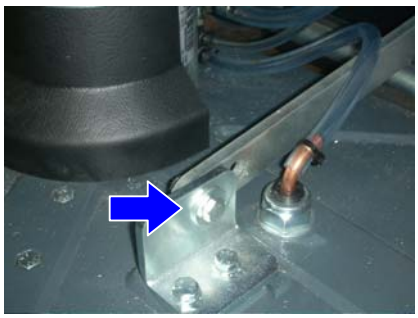
3. Adjust the **belt tensioner spring** to a lenght of **27mm** in compression.



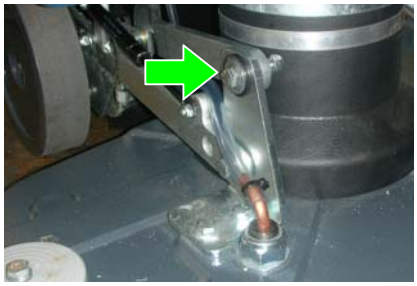


4. Adjust the transversal inclination of the brush assembly:

- Put the machine on a even and equal floor.
- Lower the brush base on the floor with brushes installed.
- Lower the **bolt and the nut M8** to fix the left brush base lifting arm.
- Lay down on the floor the brush base and let the two brushes lay on the floor simultaneously.
- Fic the **M8 bolt** with its **self locking nut**.

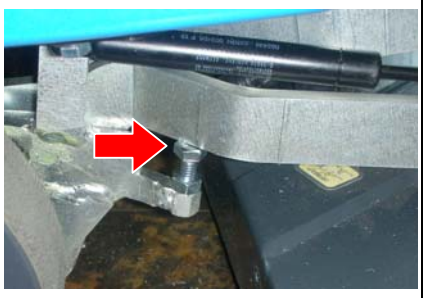


5. Verify that the **M8 bolt** that fix the arm to the third point let the brush assembly to move longitudinally to let the brush base to adapt itself to the floor.



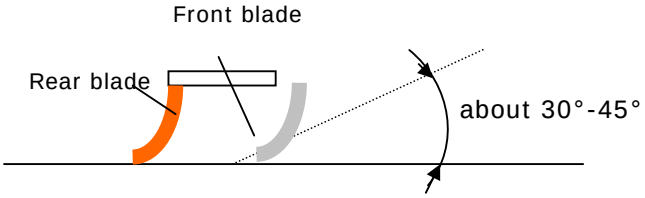
6. Verify that the brushes can be removed from the brush base and that there is space enough to let the buttons of the brushes pass under the brush connection. If necessary:

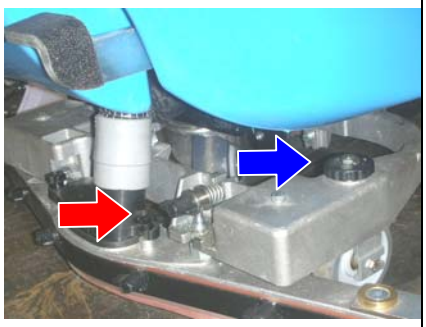
- Lift up the brush base
- Unscrew the M6 jam nut
- Unscrew the **M6 bolt** until the brushes have enough space to be removed from the brush assembly
- Verify that with the brush base doesn't interfere with the solution tank



Squeegee adjustment

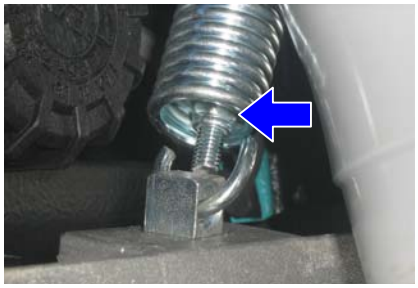
1. Adjust the inclination **adjuster** of the rubber blade until the blade has a regular inclination on all its length.
2. Adjust the height of the wheels using the **knob** checking that the blade has an inclination between 30 and 45 degrees.

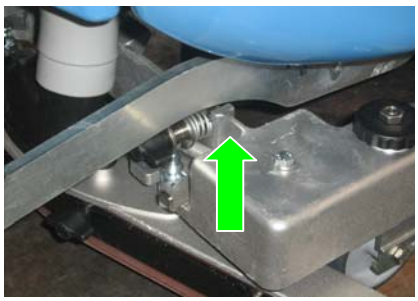




3. Verify that the squeegee assembly in high position doesn't interfere with the brush base movement pedal. In opposite case act on the M6 nut in the spring connected with the squeegee lifting wire.

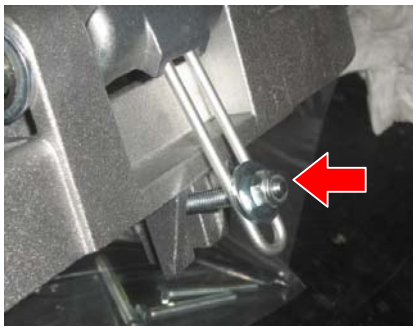
- Lift up the squeegee and out under it a spacer of about 40mm.
- Lower the squeegee movement lever.
- Verify that the **nut** and the thread are visible.
- Screw up or unscrew the nut depending on you need to lift up or lower down the squeegee assembly.
- Verify that with the squeegee lifted up there is no interference between the **brush base movement pedal** and the **squeegee support**.





4. Verify the pressure of the squeegee on the floor. Verify that the pressure to the spring and to the squeegee weight is enough to bend the squeegee rubbers and let the squeegee wheels touch the floor.
5. Verify that the pressure is not too much to prevent a fast wearing out of the squeegee wheels in swerving.
6. To perform the adjustment act as follow:

- Lower down the squeegee assembly;
- Screw up the **M8 self locking nut** to increase the pressure on the floor or unscrew it to lower the pressure.



Functional check of the machine
☐ Check the functionality of switches and warning lamps;
☐ Check the functionality of the accelerator lever;
☐ Check the functionality of the brush base;
☐ Check the functionality of the brush motor;
☐ Check the functionality of the solenoid valve;
☐ Check the functionality of the vacuum motor;
☐ Check the functionality of the brakes;
☐ Check the functionality of batteries and power cables;

Functional test of the machine
☐ Fill the tanks completely and verify the sealing;
☐ Verify the sealing of all the water plant and that the water is equal on both brushes;
☐ Adjust the inclination and the height of the squeegee blades doing a functional test;
☐ Adjust the inclination of the brush base and do a functional test;
☐ Check the efficiency of the parking brake;
☐ Verify the forward and backward movement, acceleration and braking;

Final Check
Check all the functions: washing, drying and movement

BETCO US WARRANTY POLICY

10 year coverage

Subject to the conditions stated below, Betco warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

3 Year Coverage

Subject to the conditions stated below, Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

1 Year Coverage

Subject to the conditions stated below, Betco offers a limited warranty on parts and labor on the following equipment: parts and accessories to be free from defects in materials and workmanship for a period of one year to the original purchaser.

- DM Series Vacuums: #85506-00, #85507-00
- Bac Pac Lite Vacuum: #85903-00
- FiberPRO® Floor Dryer: #85507-00
- WORKMAN™ Series Vacuums: #85024-00, #85025-00, #85026-00, #85027-00
- CV100T Vacuum: #85023-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year

Allowable Travel Time Warranty Reimbursement:
Eligible equipment: All battery and propane powered equipment products. Warranty period: 90 days from date of sale to the original purchaser. A maximum 60 mile round trip at 44 cents per mile will be allowed for warranty consideration.

Propane Machine Warranty:
Honda engines are warranted by Honda for a period of 2 years against manufacturer defects. Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defects. All other components (except wear items)* are warranted by Betco for a period of 3 years.

***Wear Items exempt from Warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco parts to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse. Negligence, fire, or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages)

BETCO®

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